



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105

James Cox, Director
Engineering and Environmental Affairs
Van Camp Seafood Company, Inc.
4510 Executive Drive, Suite 300
San Diego, CA 92121-3029

JUL 30 1993

**Subject: Administrative Extension of MPRSA Section 102 Ocean Dumping Permit,
#OD 90-02**

Dear Mr. Cox:

EPA Region IX is evaluating new information and requests presented by StarKist Seafoods on behalf of StarKist Samoa for a Marine Protection, Research and Sanctuaries Act (MPRSA) Section 102 special ocean dumping permit. We are evaluating proposed changes in fish processing waste stream volumes and potential waste loadings at the disposal site off American Samoa based on information submitted by StarKist on July 28, 1993.

Due to the complexity of these evaluations, the joint disposal operations used by VCS Samoa Packing and StarKist Samoa, and the approaching expiration date of MPRSA Section 102 special permit #OD 90-02, EPA Region IX has determined that we will administratively extend MPRSA Section 102 special permit #OD 90-02. The administrative extension is made according to procedures defined in the Administrative Procedures Act (5 U.S.C. § 558). We anticipate that a decision on a new permit for VCS Samoa Packing will be made within 30 days.

EPA Region IX will inform you as soon as possible about our decision for the final permit. If you have any questions on the administrative extension or your MPRSA Section 102 permit (OD 90-02) requirements, please call me at (415) 744-2125, or you may call Patrick Cotter at (415) 744-1163 or Patricia Young at (415) 744-1594.

Sincerely,


Harry Seraydarian, Director
Water Management Division

cc: Tony Tausaga, ASEPA, Pago Pago, American Samoa
U.S. Coast Guard Liaison Officer, Pago Pago, American Samoa
Michael P. Macready, VCS Samoa Packing, Pago Pago, American Samoa
Michael Burns, Blue North Fisheries, Seattle, WA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX

James Cox, Director
Engineering and Environmental Affairs
Van Camp Seafood Company, Inc.
4510 Executive Drive, Suite 300
San Diego, CA 92121-3029

JUL 30 1993

**Subject: Administrative Extension of MPRSA Section 102 Ocean Dumping Permit,
#OD 90-02**

Dear Mr. Cox:

EPA Region IX is evaluating new information and requests presented by StarKist Seafoods on behalf of StarKist Samoa for a Marine Protection, Research and Sanctuaries Act (MPRSA) Section 102 special ocean dumping permit. We are evaluating proposed changes in fish processing waste stream volumes and potential waste loadings at the disposal site off American Samoa based on information submitted by StarKist on July 28, 1993.

Due to the complexity of these evaluations, the joint disposal operations used by VCS Samoa Packing and StarKist Samoa, and the approaching expiration date of MPRSA Section 102 special permit #OD 90-02, EPA Region IX has determined that we will administratively extend MPRSA Section 102 special permit #OD 90-02. The administrative extension is made according to procedures defined in the Administrative Procedures Act (5 U.S.C. § 558). We anticipate that a decision on a new permit for VCS Samoa Packing will be made within 30 days.

EPA Region IX will inform you as soon as possible about our decision for the final permit. If you have any questions on the administrative extension or your MPRSA Section 102 permit (OD 90-02) requirements, please call me at (415) 744-2125, or you may call Patrick Cotter at (415) 744-1163 or Patricia Young at (415) 744-1594.

Sincerely,

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cc: Tony Tausaga, ASEPA, Pago Pago, American Samoa
U.S. Coast Guard Liaison Officer, Pago Pago, American Samoa
Michael P. Macready, VCS Samoa Packing, Pago Pago, American Samoa
Michael Burns, Blue North Fisheries, Seattle, WA

SYMBOL	W-7-3	E-1	W-7-4	W-7-A2	W-1	
SURNAME	Cotter	Lee	Beltz	
DATE	7/30/93	7/30/93	7/30/93	7/30/93	7/30/93	
U.S. EPA CONCURRENCES						OFFICIAL FILE COPY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105-3911

October 19, 1992

Jim Cox
Director, Engineering and
Environmental Affairs
Van Camp Seafood Company, Inc.
4510 Executive Drive, Suite 300
San Diego, CA 92121-3029

Dear Jim:

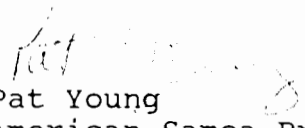
This is in response to Norman Wei's inquiry of October 6th regarding application procedures for Sta. Kist Samoa's ocean disposal permit. I am submitting to you the same information I sent to Norman as Samoa Packing's Ocean Disposal Permit No. OD 90-02 will also expire on July 30, 1993. Enclosed for your information is a copy of 40 CFR Part 221 (Applications for Ocean Dumping Permits Under Section 102 of the Act) and Part 222 (Action on Ocean Dumping Permit Applications).

Part 221 details the type of information which must be included in your application: applicant name, description and quantity of material to be dumped, proposed dates and times of disposal, proposed method of releasing materials, etc. Additionally, you should include information about the waste transporter company and vessel to be utilized for the disposal operations (company's experience, size/configuration of vessel, resume of the vessel's captain, etc.)

We suggest you submit the permit application and processing fee to us no later than mid-December 1992, to allow us to review and request additional information, if necessary. Under Part 222 EPA is required to review and issue a permit within 180 days of receipt of a completed application. We will need to review the monitoring data submitted under the present permit and all application materials before a draft permit is issued for public comment.

Should you have any further questions, please contact me at (415) 744-1591 or Patrick Cotter at (415) 744-1163.

Sincerely,


Pat Young
American Samoa Program Manager
Office of Pacific Island and Native
American Programs (E-4)

Enclosure

cc: Michael Mcready, Samoa Packing Company
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Pat Cotter, W-7-1

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: July 31, 1990

EXPIRATION DATE: July 30, 1993

PERMITTEE: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Pago Marine, Inc.
MV ASTRO
Pago Pago, American Samoa

A special ocean dumping permit is being issued to VCS Samoa Packing Company because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. § 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. § 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

1. GENERAL CONDITIONS

1.1. Operation under this special ocean dumping permit shall conform to all applicable federal statutes and regulations including, but not limited to, the Act, the Ocean Dumping Ban Act of 1988 (PL 100-688), the Marine Plastic Pollution Research and Control Act of 1987 (PL 100-220), the Clean Water Act (33 U.S.C. § 1251 et seq.), and the Ports and Waterways Safety Act (33 U.S.C. § 1221 et seq.)

1.2. All transportation and dumping authorized herein shall be undertaken in a manner consistent with the terms and conditions of this permit. VCS Samoa Packing Company (hereafter referred to as "the permittee") shall be liable for compliance with all such terms and conditions. The permittee shall be held liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit. During disposal operations when the permittee's wastes are combined with similar wastes from other permittees authorized to use the ocean disposal site defined in Special Condition 2.2, all companies shall be held individually liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit.

1.3. Under § 105 of the Act, any person who violates any provision of the Act, 40 C.F.R. Parts 220 through 228 promulgated thereunder, or any term or condition of this permit shall be liable for a civil penalty of not more than \$50,000 per day for each violation. Additionally, any knowing violation of the Act, 40 C.F.R. Parts 220 through 228, or the permit may result in a criminal action being brought with penalties of not more than \$50,000 or one year in prison, or both. Violations of the Act or the terms and conditions of this permit include but are not limited to:

1.3.1. Transportation to, and dumping at any location other than that defined in Special Condition 2.2 of this permit;

1.3.2. Transportation and dumping of any material not identified in this permit, more frequently than authorized in this permit, or in excess of those quantities identified in this permit, unless specifically authorized by a written modification hereto;

1.3.3. Failure to conduct permit monitoring as required in Special Conditions 3.1, 3.3.1, 4.7 and 5.1; or

1.3.4. Failure to file waste stream and disposal site monitoring reports as required in Special Conditions 3.3, 4.7, 5.2 and 5.3.

1.4. Nothing contained herein shall be deemed to authorize, in any way, the transportation from the United States for the purpose of dumping into the ocean waters, the territorial sea, or the contiguous zone, the following materials:

- 1.4.1. High-level radioactive wastes;
 - 1.4.2. Materials, in whatever form, produced for radiological, chemical, or biological warfare;
 - 1.4.3. Persistent synthetic or natural materials which may float or remain in suspension in the ocean; or
 - 1.4.4. Medical wastes as defined in § 3(k) of the Act.
 - 1.4.5. Flotables, garbage, domestic trash, waste chemicals, solid waste, or any materials prohibited by the Ocean Dumping Ban Act or the Marine Plastic Pollution Research and Control Act.
- 1.5. Nothing contained herein shall be deemed to authorize, in any way, violation of applicable American Samoa Water Quality Standards.
- 1.6. After notice and opportunity for a hearing, this permit may be revised, revoked or limited, in whole or in part, subject only to the provisions of 40 C.F.R. §§ 222.3(b) through 222.3(h) and 40 C.F.R. § 223.2, as a result of a determination by the Regional Administrator of EPA that:
- 1.6.1. The cumulative impact of the permittee's dumping activities or the aggregate impact of all dumping activities in the dump site designated in Special Condition 2.2 should be categorized as Impact Category I, as defined in 40 C.F.R. § 228.10(c)(1);
 - 1.6.2. There has been a change in circumstances relating to the management of the disposal site designated in Special Condition 2.2;
 - 1.6.3. The dumping authorized by the permit would violate applicable American Samoa Water Quality Standards;
 - 1.6.4. The dumping authorized can no longer be carried out consistent with the criteria set forth in 40 C.F.R. Parts 227 and 228;
 - 1.6.5. The permittee violated any term or condition of the permit;
 - 1.6.6. The permittee misrepresented, or failed to accurately disclose all relevant facts in the permit application; or
 - 1.6.7. The permittee failed to keep records, engage in monitoring and reporting activities, or to notify appropriate officials in a timely manner of the transportation and dumping activities as specified in any condition of this permit.

1.7. The permittee shall ensure at all times that facilities, including any vessels associated with the permit, are in good working order to achieve compliance with the terms and conditions of this permit. During all transportation and loading operations, there shall not be a loss of fish processing wastes to any waterway or during transport to the disposal site.

1.8. Any change in the designated waste transporter may be made at the discretion of the Regional Administrator or his delegate, provided that a written request for such a transfer be made by the permittee at least thirty (30) days prior to the requested transfer date.

1.9. The permittee shall allow the Regional Administrator of EPA Region 9, the Commander of the Fourteenth U.S. Coast Guard District (USCG), the Director of the American Samoa Environmental Protection Agency (ASEPA), and/or their authorized representatives:

1.9.1. To enter into, upon, or through the permittee's premises, vessels, or other premises or vessels under the control of the permittee, where, or in which, a source of material to be dumped is located or in which any records are required to be kept under the terms and conditions of this permit or the Act;

1.9.2. To have access to and copy any records required to be kept under the terms and conditions of this permit or the Act;

1.9.3. To inspect any dumping equipment, navigational equipment, monitoring equipment or monitoring methods required in this permit;

1.9.4. To sample or require that a sample be drawn, under EPA, USCG, or ASEPA supervision, of any materials discharged or to be discharged; or

1.9.5. To inspect laboratory facilities, data, and quality control records required for compliance with any condition of this permit.

1.10. Material which is regulated by this permit may be disposed of, due to an emergency, to safeguard life at sea in locations or in a manner that does not comply with the terms of this permit. If this occurs, the permittee shall make a full report, in accordance with the provisions of 18 U.S.C. § 1001, within 15 days to the EPA Regional Administrator, the USCG and the ASEPA describing the conditions of this emergency and the actions taken, including the nature and amount of material disposed.

1.11. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property

or any invasion of rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining State or local assent required by applicable law for the activity authorized.

1.12. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, or, except as authorized by this permit, the undertaking of any work in any navigable waters.

1.13. Unless otherwise provided for herein, all terms used in this permit shall have the meanings assigned to them by the Act or 40 C.F.R. Parts 220 through 228, issued thereunder.

2. SPECIAL CONDITIONS - DISPOSAL SITE AND WASTE CHARACTERIZATION

These conditions are required to define the length of the permit period, identify the disposal site location, describe the waste materials and define maximum permitted limits for each waste material.

2.1. Location of the Waste Generator and Duration of the Permit

2.1.1. The material to be dumped shall consist of fish processing wastes, defined in Special Conditions 2.3 and 2.4, which are materials generated at the permittee's fish cannery in Pago Pago, American Samoa.

2.1.2. This permit shall become effective on July 31, 1990 and it shall expire three years from the effective date at midnight on July 30, 1993.

2.2. Location of Disposal Site

Disposal of fish processing wastes generated at the location defined in Special Condition 2.1.1 shall be confined to a circular area with a 1.5 nautical mile radius, centered at 14° 24.00' South latitude by 170° 38.30' West longitude.

2.3. Description of Fish Processing Wastes

2.3.1. During the term of this permit, and in accordance with all other terms and conditions of this permit, the permittee is authorized to transport for disposal into ocean waters quantities of fish processing wastes that shall not exceed the following amounts:

Fish Processing Wastes	Amount
Dissolved Air Flotation (DAF) Sludge	60,000 gallons/day
Precooker Water	100,000 gallons/day
Press Water	40,000 gallons/day
Total Maximum Daily Volume	200,000 gallons/day

2.4. Waste Material Limitations

2.4.1. Permitted Physical and Chemical Constituents

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a
DAF Sludge ^b	60,000 gal/day	Total Solids 492,000 mg/L
		BOD ₅ 443,840 mg/L
		Total Phosphorus 3,910 mg/L
		Total Nitrogen 14,950 mg/L
		Oil and Grease 282,750 mg/L
		Tot. Vol. Solids 308,700 mg/L
		Density ^c 0.85 to 1.08 g/ml
Precooker Water ^b	100,000 gal/day	Ammonia 2,570 mg/L
		Total Solids 257,290 mg/L
		BOD ₅ 60,220 mg/L
		Total Phosphorus 2,170 mg/L
		Total Nitrogen 20,820 mg/L
		Oil and Grease 207,830 mg/L
		Tot. Vol. Solids 358,180 mg/L
Press Water ^b	40,000 gal/day	Density ^c 0.96 to 1.04 g/ml
		Ammonia 2,740 mg/L
		Total Solids 463,780 mg/L
		BOD ₅ 524,270 mg/L
		Total Phosphorus 6,860 mg/L
		Total Nitrogen 32,020 mg/L
		Oil and Grease 386,480 mg/L
		Tot. Vol. Solids 384,560 mg/L
		Density ^c 0.98 to 1.07 g/ml
		Ammonia 4,940 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

2.4.2. Permitted Maximum Concentrations for each type of waste were calculated based on an analysis of historical data from the permittee's previous research permits. The calculations followed EPA's recommended procedure for determining permit limits as defined in the EPA document titled "Guidance Document for Ocean Dumping Permit Writers" (January 30, 1988). EPA Region 9 will periodically review these limits during the permit to evaluate the accuracy of the limits. If revisions are necessary, EPA Region 9 will make changes according to the authority defined in the Ocean Dumping Regulations at 40 C.F.R §§ 223.2 to 223.5.

2.4.3. The pH range for all fish processing wastes shall not be less than 5.5 pH units nor greater than 7.0 pH units.

2.4.4. The Permitted Maximum Concentration and pH limits, listed above, shall not be exceeded at any time during the term of this permit.

3. SPECIAL CONDITIONS - ANALYSIS OF WASTE MATERIAL

Compliance with the permitted maximum concentrations defined in Special Condition 2.4 shall be determined by monthly monitoring of each of the waste streams permitted for ocean disposal. Additional analyses of fish processing wastes and reporting requirements are defined in this section. Any sampling dates shall be scheduled within the first two weeks of the month to allow enough time for laboratory analyses and report writing to comply with Special Condition 3.3.

3.1. Analyses of Waste Material

3.1.1. Concentrations of the constituents listed in Special Condition 2.4 and those listed in the table below shall be determined for each waste stream. A sample of each waste stream shall be taken before the individual streams are mixed prior to being pumped into the disposal vessel. A sample shall consist of three replicate samples, taken on the day that sampling is scheduled, which are pooled to be used as a composite sample. The detection limits specified in the table shall be used in all waste stream analyses.

Parameters	Detection Limits
Total Solids ^a	10.0 mg/L
BOD ₅	10.0 mg/L
Total Phosphorus	1.0 mg/L
Total Nitrogen	1.0 mg/L
Oil and Grease	10.0 mg/L
pH	0.1 pH units
Total Volatile Solids	10.0 mg/L

Parameters (cont.)	Detection Limits
Density	0.01 g/mL
Ammonia	1.0 mg/L
Aluminum	0.01 mg/L
Chromium	0.01 mg/L
Nickel	0.01 mg/L
Copper	0.01 mg/L
Lead	0.01 mg/L
Cadmium	0.01 mg/L
Mercury	0.01 mg/L
Total Petroleum Hydrocarbons ^b	0.05 mg/L

a = Limits for Total Solids will be calculated when enough data are available.

b = Infrared Spectrophotometry, EPA Method 418.1

3.1.2. All waste material sampling procedures, analytical protocols, and quality control/quality assurance procedures shall be performed in accordance with guidelines specified by EPA Region 9. The following references shall be used by the permittee:

3.1.2.1. 40 C.F.R. Part 136, EPA Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

3.1.2.2. Tetra Tech, Incorporated 1985. Summary of U.S. EPA-approved Methods, Standard Methods and Other Guidance for 301(h) Monitoring Variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Incorporated, Bellevue, Wa.; and

3.1.2.3. Environmental Protection Agency. 1987. Quality Assurance and Quality Control for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-004.

3.1.3. Any waste material constituents listed in Special Condition 3.1.1 that are shown to be consistently nondetectable, may be eliminated from further analytical tests. Before elimination of the parameter is permitted, the permittee shall obtain written approval from EPA Region 9 and the ASEPA.

3.2. Analytical Laboratory

3.2.1. Within 30 days of the effective date of this permit, the name and address of the contract laboratory or laboratories and a description of all analytical test procedures and quality assurance/quality control procedures, including detection limits being used, shall be provided for EPA Region 9 approval.

3.2.2. Any potential variation or change in the designated laboratory or analytical procedures shall be reported, in writing, for EPA Region 9 approval.

3.2.3. EPA Region 9 may require analyses of quality control samples by any laboratories employed for purposes of compliance with Special Condition 3.1 and Appendix A. Upon request, the permittee shall provide EPA Region 9 with the analytical results from such samples.

3.2.4. A complete analysis of constituents, required in Special Condition 3.1, shall be made by the permittee and reported to EPA Region 9 and the ASEPA whenever there is a change in the quality of the waste, process configuration, or waste treatment. If deemed necessary by EPA Region 9, bioassays shall be required in addition to constituent analyses.

3.3. Reporting

3.3.1. The permittee shall provide EPA Region 9, ASEPA, the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS) and the Western Pacific Regional Fishery Management Council (WPRFMC) with a report, prepared every 6 months during the permit period, that contains the following information:

3.3.1.1. Daily volumes of DAF sludge, press water and precooker water removed from the permittee's facility, and loaded into the disposal vessel reported in gallons per day and tons per day;

3.3.1.2. Monthly waste stream analyses demonstrating that the waste materials being dumped comply with the permitted limits of constituents listed in Special Condition 2.4;

3.3.1.3. Monthly analyses of the additional parameters listed in Special Condition 3.1; and

3.3.1.4. The monthly amount of coagulant polymer and alum added to the waste streams reported in pounds.

3.3.2. Such reports, including a statistical analysis of parameter variability and comparison with the permit limits, shall be submitted to EPA Region 9, ASEPA, NMFS, USFWS and WPRFMC within 45 days of the end of the preceding 6-month period for which they were prepared. The reports shall be submitted within this time unless extenuating circumstances are communicated to EPA Region 9 and the ASEPA in writing.

3.3.3. A summary report of all 6-month reports listed in Special Condition 3.3.1, including a statistical analyses of parameter variability, comparisons with permit limits and a detailed discussion of the summary results, shall be submitted by the permittee to EPA Region 9 and the ASEPA 45 days after the permit expires.

3.3.4. Upon detection of a violation of any permit condition, the permittee shall send a written notification of this violation to EPA Region 9 and the ASEPA within five working days and a detailed written report of the violation shall be sent to the agencies within 15 working days. This notification shall pertain to any permit limits, defined in Special Condition 2.4, that are exceeded; and any disposal operation that occurs outside the disposal site defined in Special Condition 2.2.

3.3.5. One year from the effective date of this special permit, the permittee shall submit a report to EPA Region 9 and ASEPA on the concentrations of heavy metals and petroleum hydrocarbons that have been measured in each of the waste streams since 1986. This report shall contain the following information:

3.3.5.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations and statistical analyses;

3.3.5.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, including quality assurance/quality control data, and measures necessary to improve the accuracy and precision of data reported to EPA Region 9 and ASEPA;

3.3.5.3. Engineering analysis of the source of these heavy metals and petroleum hydrocarbons;

3.3.5.4. Proposed methods or requirements for reducing concentrations of these heavy metals and petroleum hydrocarbons in the waste streams by factors of 10%, 50% and 95%. These proposals should include plant engineering and economic analyses for each level of reduction.

3.3.5.5. EPA Region 9 and ASEPA will evaluate the report to determine possible requirements for plant modification, waste stream treatment or other special conditions to eliminate the concentrations of heavy metals and petroleum hydrocarbons in the permittee's waste streams.

3.3.6. One year from the effective date of this special permit, the permittee shall submit a report to EPA Region 9 and ASEPA on the accuracy and precision of all data reported from 1980 to the present for waste stream flows and analyses of the waste streams, including DAF sludge, press water and precooker water. These data shall include test results for total solids, 5-day biological oxygen demand, total phosphorus, total nitrogen, oil and grease, pH, total volatile solids, density and ammonia, not heavy metals or petroleum hydrocarbon concentrations. This report shall contain the following information:

3.3.6.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations, regression analysis and time-series analysis;

3.3.6.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, evaluation of all laboratory quality assurance/quality control reports, and measures necessary to improve the accuracy and precision of the data reported to EPA Region 9 and ASEPA; and

3.3.6.3. EPA Region 9 and ASEPA will evaluate the report to determine possible requirements to improve sample or data analyses for the permittee's waste streams.

4. SPECIAL CONDITIONS - VESSEL OPERATIONS

Specifications for vessel operations are required to limit dumping activities to the dump site identified in Special Condition 2.2 and to record all dumping activities.

Fish processing wastes from the permittee's waste streams and those of other authorized permittees may be loaded into the disposal vessel together. If the waste transported to the disposal site is a combination of materials from the two plants, then the companies shall each be liable for all permit conditions regarding disposal of the wastes. If the wastes disposed at the site are only fish processing wastes generated at the permittee's plant, then the permittee shall be solely liable for all permit conditions pertaining to the disposal operation. The volume of material loaded into the disposal vessel by the permittee shall be reported as specified in Special Condition 4.7.2.3.

4.1. Posting of the Permit

This permit, or a true copy thereof, shall be placed in a conspicuous place on any vessel which will be used for the transportation and dumping authorized by this permit. If the dumping vessel is an unmanned barge, the permit or true copy of the permit shall be transferred to the towing vessel.

4.2. Vessel Identification

Every vessel engaged in the transportation of wastes for ocean disposal shall have its name and number painted in letters and numbers at least fourteen (14) inches high on both sides of the vessel. The name and number shall be kept distinctly legible always, and a vessel without such markings shall not be used to transport or dump waste material.

4.3. Determination of the Disposal Location Within the Dump Site

On each disposal trip, the master of the disposal vessel shall determine the location of the disposal operation as follows:

4.3.1. The disposal vessel, as defined under WASTE TRANSPORTER on page 1 of this permit, shall proceed directly to the center of the disposal site at the location specified in Special Condition 2.2.

4.3.2. The master of the vessel shall observe the conditions at the dump site center, noting the vessel's position (latitude and longitude), wind direction and observed surface current direction.

4.3.3. After the conditions defined in Special Condition 4.3.2 have been recorded, the master of the disposal vessel shall proceed 1.1 nautical miles up current from the center of the disposal site and record the position of the disposal vessel (latitude and longitude). This position shall be the starting point for the disposal operation for the trip.

4.3.4. This procedure shall be repeated for each disposal trip.

4.3.5. The master of the disposal vessel shall prepare a navigational plot of the procedures defined in Special Conditions 4.3.1 to 4.3.3 and supply these to the permittee. The permittee shall submit these plots in the 6-month reports required under Special Condition 3.3.1. The navigational plot shall include:

4.3.5.1. The disposal vessel's course during the entire dumping operation; and

4.3.5.2. The times and location of entry and exit from the disposal site, position and time of arrival at the center of the disposal site, position and time of arrival at the location 1.1 nautical miles up current from the center of the disposal site, beginning and ending of dumping, and disposal vessel position plotted every 15 minutes while dumping.

4.3.6. The master of the disposal vessel shall sign and date each plot.

4.3.7. The master of the disposal vessel shall certify that disposal occurred in the manner required by the permit.

4.4. Disposal Rate and Vessel Speed

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

4.5. Navigational Equipment

The permittee shall employ an onboard electronic positioning system (see reference below) to fix the position of the disposal vessel accurately during all dumping operations. This system is subject to advance approval by EPA Region 9 and the U.S. Coast Guard Liaison Office (CGLO), Pago Pago 15 days after the effective date of the permit.

The following reference should be used in evaluating the electronic positioning system:

Environmental Protection Agency. 1987. Evaluation of Survey Positioning Methods for Nearshore Marine and Estuarine Waters. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-003.

4.6. Permitted Times for Disposal Operations

Dumping operations shall be restricted to daylight hours, unless an emergency exists and written authorization is obtained from the CGLO Pago Pago or the ASEPA prior to departure. EPA Region 9 shall be notified no later than 15 working days after the emergency in a written report of the situation.

4.7. Reporting of the Ocean Dumping Vessel Operations

4.7.1. The waste transporter shall maintain and the permittee shall submit copies of a monthly transportation and dumping logbook, including plots of all information requested in Special Condition 4.7.2, to EPA Region 9, CGLO Pago Pago, and the ASEPA as part of the 6-month report.

4.7.2. The logbook shall contain the following information for each waste disposal trip:

4.7.2.1. Permit number, date and serial trip number;

4.7.2.2. The time that loading of the vessel commences and ceases in Pago Pago Harbor;

4.7.2.3. The volume of each waste loaded into the disposal vessel from each fish cannery;

4.7.2.4. The time and navigational position that dumping commences and ceases;

4.7.2.5. A record of vessel speed and direction every 15 minutes during each dumping operation at the disposal site, and a plot on a navigational chart of the vessel's course defined in Special Condition 4.3.5;

4.7.2.6. Observe, note and plot the time and position of any flutable material;

4.7.2.7. Observe, note and plot the wind speed and direction every 30 minutes while dumping wastes at the designated disposal site;

4.7.2.8. Observe and note current direction at the beginning and end of the disposal trip, and the direction of the waste plume at the end of the disposal operation;

4.7.2.9. Observe, note and plot the presence of the previous disposal plume and any unusual occurrences during the disposal trip, or any other information relevant to the assessment of environmental impacts as a result of dumping activities; and

4.7.2.10. Any unusual occurrences noted under Special Condition 4.7.2.9 shall be highlighted in the report defined in Special Condition 3.3.1.

5. SPECIAL CONDITIONS - DUMP SITE MONITORING

The monitoring program for disposal of wastes in the ocean must document effects of disposed wastes on the receiving waters, biota, and beneficial uses of the receiving waters; compliance with EPA's Ocean Dumping Regulations; and determine compliance with permit terms and conditions. Revisions to the monitoring program may be made under the direction of EPA Region 9 at any time during the permit term, in compliance with 40 C.F.R. §§ 223.2 and 223.3. This may include a reduction or increase in the number or parameters to be monitored, the frequency of monitoring, the location of sample stations, or the number and size of samples to be collected.

Implementation of the disposal site monitoring program and all segments of the monitoring program specified in Special Condition 5 and Appendix A shall be the responsibility of the permittee.

5.1. Monitoring Program

The permittee is required to conduct the monitoring program specified by EPA Region 9, defined in Appendix A, as a means of determining the environmental impacts of ocean dumping of the waste. If possible, monitoring cruises shall be scheduled within the first two weeks of each month to allow enough time for laboratory analysis and report writing in compliance with Special Condition 5.2. The permittee shall notify the ASEPA at least 48 hours before any scheduled monitoring activities.

5.2. Monitoring Reports

Monthly site monitoring reports shall be submitted to EPA Region 9, the ASEPA, NMFS, USFWS and WPRFMC with the 6-month reports as specified in Special Condition 3.3.2. The reports shall include: neatly compiled raw data for all sample analyses, quality assurance/quality control data, statistical analysis of sample variability between stations and within samples for each parameter, and a detailed discussion of the results.

5.3. Final Summary Report

5.3.1. A report shall be submitted to EPA Region 9, ASEPA, NMFS, USFWS and WPRFMC 60 days after the permit expires. This report shall summarize all of the data collected during the waste material and dump site monitoring programs specified in this special permit.

5.3.2. At a minimum, the summary report shall contain the following sections:

5.3.2.1. Introduction (including a summary of previous ocean disposal activities),

5.3.2.2. Location of Study Sites,

5.3.2.3. Materials and Methods,

5.3.2.4. Results and Discussion (including comparisons and contrasts with previous data related to disposal of fish processing wastes off American Samoa),

5.3.2.5. Conclusions, and

5.3.2.6. References.

5.4. Quality Assurance/Quality Control

5.4.1. All appropriate phases of the monitoring, sampling, and laboratory analytical procedures shall comply with the EPA Region 9-specified protocols and references listed in Special Condition 3.1.2.

5.4.2. The qualifications of the on-site Principal Investigator in charge of the field monitoring operation at the dump site shall be submitted to EPA Region 9 and the ASEPA for approval before the initial monitoring cruise. Notification of any change in this individual shall be submitted to EPA Region 9 and ASEPA at least 7 days before the cruise is scheduled.

6. SPECIAL CONDITIONS - NOTICE TO REGULATORY AGENCIES

6.1. Notice of Sailing to U.S. Coast Guard

6.1.1. The waste transporter shall provide telephone notification of sailing to CGLO Pago Pago at 633-2299 and the ASEPA at 633-2304 during working hours (7:00 a.m. to 3:30 p.m.) no later than 24 hours prior to the estimated time of departure for the dump site defined in Special Condition 2.2.

6.1.2. The waste transporter shall immediately notify CGLO Pago Pago and the ASEPA upon any changes in the estimated time of departure greater than two hours.

6.1.3. Surveillance of activities at the dump site designated in Special Condition 2.2, may be accomplished by unannounced aerial overflights, a USCG shiprider and/or a ASEPA shiprider who will be on board the towing/conveyance vessel for the entire voyage. Within two hours after receipt of the initial notification the waste transporter will be advised whether or not a shiprider will be assigned to the waste transporter's disposal vessel.

6.1.4. The following information shall be provided to CGLO Pago Pago or the ASEPA in the notification of sailing defined above:

6.1.4.1. The time of departure,

6.1.4.2. Estimated time of arrival at the dump site,

6.1.4.3. Estimated time of departure from the dump site, and

6.1.4.4. Estimated time of return to port.

6.2. Reports and Correspondence

6.2.1. Two copies of all reports and related correspondence required by General Condition 1.9, Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4, and all other materials, including applications shall be submitted to EPA Region 9 at the following address:

Office of Pacific Island and Native American Programs
(E-4)
U.S. Environmental Protection Agency, Region 9
1235 Mission Street
San Francisco, California 94103
Telephone (415) 556-5069

6.2.2. Two copies of all reports required by General Condition 1.9 and Special Conditions 4.7 and 6.1 sent to the U.S. Coast Guard shall be submitted to the following address:

Commanding Officer
U.S. Coast Guard Liaison Office
P.O. Box 249
Pago Pago, American Samoa 96799
Telephone (684) 633-2299

6.2.3. Three copies of all reports required by General Condition 1.9 and Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4 and 6.1 sent to the American Samoa Environmental Protection Agency shall be submitted to the following address:

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799
Telephone (684) 633-2304

6.2.4. One copy of the all reports required by Special Conditions 3.3.2, 3.3.3, 5.2 and 5.3 shall be sent to the USFWS, the NMFS and the WPRFMC at the following addresses:


Project Leader
Office of Environmental Services
U.S. Fish and Wildlife Service
300 Ala Moana Boulevard
P.O. Box 50167
Honolulu, Hawaii 96850

Western Pacific Program Officer
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Executive Director
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1405
Honolulu, Hawaii 96813

Signed this 16th day of July, 1990

For the Regional Administrator:



Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9

APPENDIX A

SPECIAL OCEAN DUMPING PERMIT OD 90-01 OCEAN DUMP SITE MONITORING PLAN

7. MONITORING OF RECEIVING WATER

Monitoring of the receiving waters at the disposal site defined in Special Condition 2.2 shall be the responsibility of the permittee. Funding and cooperation for site monitoring may be accomplished through an agreement between permittee and other permittees authorized to use the disposal site. Any agreements negotiated between the permittee and other authorized permittees shall be the sole responsibility of the permittee named in this permit. EPA Region 9 requires that a monitoring program be developed that complies with the conditions defined below.

During each monitoring cruise, the waste plume from the disposal vessel shall be sampled by taking discrete water samples for the measurement of parameters listed in Special Condition 7.2.4. Results of the first 6-month monitoring report will be evaluated by EPA Region 9 to determine whether portions of Special Conditions 7 and/or 8 will be revised. The evaluation will be based on documented sampling results and recommendations by the permittee(s).

7.1. Location of Water Sampling Stations

7.1.1. On each sampling cruise, the latitude and longitude of all sampling stations shall be determined and plotted using appropriate navigational equipment.

7.1.2. The Principal Investigator shall ensure that discrete water samples are taken at the locations marked in Figure 1.

7.1.3. The Principal Investigator shall ensure that each sampling station is positioned as close as possible to the middle of the discharge plume according to his best professional judgment.

7.1.4. The following stations shall be sampled on each sampling cruise (see Figure 1):

7.1.4.1. Station 1 shall be the starting point of the dumping operation as determined in Special Condition 4.3.

7.1.4.2. Station 2 shall be 0.25 nautical miles (nm) down-current from Station 1.

7.1.4.3. Station 3 shall be 0.5 nm down-current from Station 1.

7.2.5. If waste stream analyses, described in Special Condition 3.1, identify significantly high levels of constituents that may adversely affect marine water quality, EPA Region 9 may require that those constituents be added to the list of water column parameters in 7.2.4 above.

7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

7.3. Frequency of Sampling

7.3.1. Water samples shall be collected when dumping operations occur. Each station listed under Special Condition 7.1 shall be sampled once each month. These samples shall be used to characterize the receiving waters at the disposal site.

7.3.2. Control samples shall be taken at Station 1 prior to dumping activities.

7.3.3. Station 1 shall be sampled at a point within the plume immediately after discharge operations cease.

7.3.4. Stations 2 through 5 shall be sampled consecutively at distances indicated in Special Condition 7.1.4 to allow efficient sampling of the discharge plume. The time between each sample and the sampling location, beginning with the control sample and ending with the sample collected at the leading edge of the plume, shall be recorded.

7.4. Water Quality Criteria and Standards

7.4.1. The limited permissible concentration (LPC) of the liquid phase of the waste material shall not be exceeded at the disposal site boundary four hours after disposal operations cease. The LPC is that concentration of the material which, after allowance for initial mixing as defined at 40 C.F.R. § 227.29, does not exceed applicable American Samoa Oceanic Water Quality Standards. EPA Region 9 and the ASEPA will evaluate the LPC based on EPA's Ocean Dumping Regulations and the water quality values obtained for the stations sampled during the tenure of this permit.

7.4.2. The following standards apply to American Samoa oceanic water:

Parameter	Median not to exceed given value
Turbidity (NTU)	0.20
Total Phosphorus (ug-P/L)	11.00

Parameter (cont.)	Median not to exceed given value
Total Nitrogen (ug-N/L)	115.00
Chlorophyll a (ug/L)	0.18
Light Penetration Depth (feet)	150*
Dissolved Oxygen (DO)	Not less than 80% of saturation or less than 5.5 mg/L. If the natural level of DO is less than 5.5 mg/L, then the natural DO shall become the standard.
pH	The range shall be 6.5 to 8.6 pH units and within 0.2 pH units of that which would occur naturally.

*To exceed the given value 50% of the time.

8. MONITORING OF BIOLOGICAL COMMUNITIES

8.1. Pelagic Resources

8.1.1. All sightings of fish, sea turtles, sea birds, or cetaceans near the disposal site shall be recorded including:

- 8.1.1.1. Time, location and bearing;
- 8.1.1.2. Species name(s); and
- 8.1.1.3. Approximate number of individuals.

MAILING LIST FOR THE AMERICAN SAMOA
MPRSA FISH WASTE PERMIT AND SITE DESIGNATION

LATEST REVISION - July 26, 1990

Permittees - Fish Waste

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Vice President and Director
Production Operations
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Mr. Norman Wei
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StarKist Seafood Company
180 East Ocean Boulevard
Long Beach, California 90802-4797

Mr. James L. Cox, P.E.
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Pago Pago, American Samoa 96799

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Federal Agencies - Washington, D.C.

Ms. Nancy Boone
Director, Office of Territorial Liaison
Office of Territorial and International Affairs
Department of the Interior
Washington, D.C. 20460

Mr. David Dressel
Chief, Shellfish Sanitation Branch (HFF-334)
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200 C Street, S.W.
Washington, D.C. 20204

NOTE: EPA MEMO WITH MATERIALS

Mr. Darrell Brown
Chief, Marine Permits and Monitoring Branch
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Washington, D.C. 20460

Chief, Sanctuary Program Division
National Oceanic and Atmospheric Administration
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Washington, D.C. 20235

Federal Agencies - Hawaii

NOTE: EPA MEMO WITH MATERIALS

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U.S. Environmental Protection Agency
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Honolulu, Hawaii 96850

Colonel Timothy Wynn
District Engineer
Department of the Army
U.S. Army Engineer District, Honolulu District
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ATTN: Engineering Division

Director
U.S. Army Corps of Engineers
Pacific Ocean Division
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National Marine Fisheries Service, Southwest Region
Western Pacific Program Office
2570 Dole Street
Honolulu, Hawaii 96822-2396

Chief, Marine Safety Division
14th Coast Guard District
300 Ala Moana Boulevard, Room 9141
P.O. Box 50229
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Executive Director
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1405
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San Francisco, California 94102

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Regional Director
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Portland, Oregon 97232

Dr. E.C. Fullerton
Regional Director
National Marine Fisheries Service
Southwest Region
300 South Ferry Street
Terminal Island, California 90731

American Samoa Government NOTE: SEND ALL SAMOA LETTERS BY DHL

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Pago Pago, American Samoa 96799

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Pago Pago, American Samoa 96799

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Director
Economic Development Planning Office
American Samoa Government
Pago Pago, American Samoa 96799

Tautai A.F. Fa'alevao
Attorney General
American Samoa Government
Pago Pago, American Samoa 96799

Dyke Coleman
Chairman
Environmental Quality Commission
Office of the Governor
Pago Pago, American Samoa 96799

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Executive Director
Fisheries Protection Institution
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Summerland, California 93067

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Pacific Seafood Industries
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Santa Barbara, California 93120

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SEND LETTER DHL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: July 31, 1990

EXPIRATION DATE: July 30, 1993

PERMITTEE: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Pago Marine, Inc.
MV ASTRO
Pago Pago, American Samoa

A special ocean dumping permit is being issued to VCS Samoa Packing Company because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. § 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. § 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

SYMBOL	W-7-1	E-4	E-4	RC-4	W-7-1	W-1
SURNAME	G. G.	W. G.	W. G.	W. G.	W. G.	W. G.
DATE	7/5/90	7/11/90	7/11/90	7/12/90	7/14/90	7-16
U.S. EPA CONCURRENCES						

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EPA REGION 9 RESPONSES TO COMMENTS ON
VCS SAMOA PACKING COMPANY'S SPECIAL OCEAN DUMPING PERMIT OD 90-02

COMMENTER A: Mr. John Enright, for the Board of Directors, Le Vaomatua, Pago Pago, American Samoa.

Comment 1. Based on the draft special ocean dumping permit published on February 2, 1990, Le Vaomatua fully supports the final site designation.

Response 1. EPA Region 9 appreciates the support of American Samoa's non-governmental environmental organization. The Final Rule for site designation was published in the Federal Register on February 6, 1990 (55 Fed. Reg. 3948). No objections were received on the Final Rule. The ocean disposal site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. A Final Environmental Impact Statement was issued in March 1989. See Response C.1 regarding corrections of typographical errors to the Final Rule and Response E.5 regarding corrections of typographical errors to the draft special permit.

Comment 2. A buoy should be anchored at the center of the disposal site to facilitate strict compliance with procedures for establishing the exact coordinates of the disposal site by the disposal vessel prior to discharge.

Response 2. EPA Region 9 is satisfied that the requirements set forth in the draft special permit are sufficient to compel the permittee to accurately fix the dump site position. Special Condition 4.5 of the draft special permit requires the permittee to use an onboard electronic positioning system. Special Condition 4.7 of the draft special permit requires the permittee to document where the disposal vessel dumps the fish processing wastes. Special Condition 6.1.3 of the draft special permit authorizes representatives of the American Samoa Environmental Protection Agency and the U.S. Coast Guard Liaison Officer to accompany the disposal vessel as shipriders at the regulatory agencies' option. In addition, a requirement has been added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment. We believe that these requirements are sufficient to document compliance with the special permit conditions. Moreover, research permit records show that the disposal vessel has remained within the disposal site. Therefore, we have decided not to require the permittee to place a marker buoy in the water, which is over 9,000 feet deep. We responded similarly to a request from the Western Pacific Regional Fishery Management Council in a letter dated March 20, 1990 (see Enclosure 1).

COMMENTER B: Dr. E.C. Fullerton, Regional Director, Southwest Region, National Marine Fisheries Service, Terminal Island, California.

Comment 1. The National Marine Fisheries Service (NMFS) supports the designation of the 1,500-fathom ocean disposal site off American Samoa for disposal of fish processing wastes. No objections were made to the issuance of the February 2, 1990 draft special ocean dumping permit or to the Final Rule for the designated disposal site published in the Federal Register on February 6, 1990.

Response 1. EPA Region 9 appreciates the support and comments from the NMFS during the permitting and site designation process.

COMMENTER C: Dr. Dorothy Soule, Vice President and General Manager, SOS Environmental, Inc., Los Angeles, California.

Comment 1. A typographical error was found on page 16, line 2 of the Final Rule for designation of an ocean disposal site published in the Federal Register on February 6, 1990. The Final Rule states that the longshore current is between Pago Pago Harbor and the southeastern end of the island. The current actually flows between Pago Pago Harbor and the southwestern end of the island.

Response 1. This and the other corrections of typographical errors (see Response E.5) will be published in the Federal Register. A copy of the notice to be published will be mailed to EPA Region 9's mailing list for the American Samoa fish processing waste program.

COMMENTER D: Ms. Kitty M. Simonds, Executive Director, Western Pacific Regional Fishery Management Council, Honolulu, Hawaii.

Comment 1. The Western Pacific Regional Fishery Management Council (WPRFMC) is pleased with EPA Region 9's decision to designate the 1,500-fathom ocean disposal site for disposal of fish processing wastes and to adopt recommendations 2, 3, and 4 made in the WPRFMC's May 23, 1989 letter.

Response 1. EPA Region 9 appreciates the support and comments from the WPRFMC during the permitting and site designation process.

Comment 2. WPRFMC recommends that a permanent, lighted buoy be placed at the center of the new disposal site.

Response 2. See Response A.2 and Enclosure 1.

COMMENTER E: Mr. Thomas P. Redick, Esq., Lillick & McHose, (on behalf of VCS Samoa Packing Company), San Diego, California.

Comment 1. VCS Samoa Packing Company (VCS) requested that the amount of material authorized for discharge be revised to allow disposal of: 60,000 gallons per day of dissolved air flotation sludge (DAF), 100,000 gallons per day of precooker water, and 40,000 gallons per day of press water, for a maximum of 200,000 gallons per day. Normal disposal operations require about 100,000 gallons per day; however, VCS requested authorization to dispose of an additional 100,000 gallons per day if an emergency occurs.

At EPA Region 9's request, a report was prepared by the applicant's contractor entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site Off Tutuila Island, American Samoa," SOS Environmental, Inc. and Environmental and Ocean Technology, Inc. (March 1990) (referred to as the "Modeling Report"). The Modeling Report demonstrates that 200,000 gallons of fish processing wastes can be discharged in one trip using the new vessel, the MV ASTRO (see Comment and Response E.2 below), without exceeding the Limiting Permissible Concentration (LPC) (see 40 C.F.R. § 227.27) of the disposal site, as long as the discharge operations comply with the limitations discussed in the Modeling Report (see Comment E.3 below). If VCS and StarKist Samoa each discharged 200,000 gallons on the same day, two separate trips would be required.

Response 1. The draft special permit published on February 2, 1990 reflects the amount of fish processing wastes requested for disposal by VCS in its application letter dated December 2, 1988. These amounts were: 31,400 gallons per day of DAF sludge, 13,300 gallons per day of precooker water, and 12,200 gallons per day of press water, for a total of 56,900 gallons per day (see Special Condition 2.3 of the February 2, 1990 draft special permit). VCS has now asked to dispose of increased volumes of its fish processing wastes to facilitate compliance with its National Pollutant Discharge Elimination System (NPDES) permit issued under § 402 of the Clean Water Act. VCS intends to divert a portion of its point source discharge from Pago Pago Harbor to a vessel for ocean disposal. The newly-requested amounts equal 1.91 times more DAF sludge, 7.52 times more precooker water, 3.28 times more press water and 3.52 times more total daily disposal than originally requested. StarKist Samoa's draft special permit, also published on February 2, 1990, provides for disposal of a total of 200,000 gallons per day of the fish processing wastes described above. StarKist Samoa did not request any increases in the amount of fish processing wastes proposed for disposal. EPA Region 9 agrees that if each applicant discharged 200,000 gallons on the same day, the MV ASTRO would have to make two separate trips.

To determine whether the LPC would be met notwithstanding the requested increase in disposal quantities and requested changes in the disposal vessel, EPA Region 9 asked the applicants (VCS and StarKist Samoa) to have their consultant run a plume dispersal model for a range of variables, including changes in barge size, rate of discharge, disposal patterns, and current velocities. The applicants' consultant ran the plume dispersion model using the assumptions, as requested.

EPA Region 9's evaluation of VCS's request is based on a review of the Modeling Report, which was submitted as part of VCS's comments on its February 2, 1990 draft special permit. The Modeling Report stated that 400,000 gallons per day (200,000 gallons for VCS and 200,000 gallons for StarKist Samoa) could be disposed of without exceeding the LPC at the designated disposal site boundary, but only when certain assumptions used in the modeling runs were met (see Comment E.3 below). Based on the modeling results demonstrating that under certain circumstances the LPC would not be exceeded at the site boundary, EPA Region 9 changed certain aspects of the disposal operations in the revised draft special permit (see discussion in Response E.3 below). Having made these changes to the disposal operation, EPA Region 9 intends to authorize the increased amounts of fish processing wastes to be disposed of at the designated site, as requested by VCS.

Comment 2. VCS requested that the designated waste transporter be changed to the MV ASTRO, which has a 200,000-gallon capacity. The vessel is owned by Pago Marine, Inc.

Response 2. To accommodate the increased ocean disposal volumes arising out of the elimination of certain high strength waste streams from VCS' point source discharges in Pago Pago Harbor, the waste disposal vessel has been changed from the MV MATAORA, owned by Silk and Boyd, to the MV ASTRO, owned by Pago Marine, Inc. Both VCS and StarKist Samoa will be using this vessel. After reviewing the Modeling Report, EPA Region 9 has determined that the change in the size of the disposal vessel would have a negligible effect on the ability of the disposal operations to meet the LPC.

Comment 3. VCS quoted the conclusions of the Modeling Report to support its contention that the requested changes in volume and the size of the disposal vessel would not cause the LPC to be exceeded at the disposal site boundary. The Modeling Report conclusions are:

- a. Changes in vessel size, either increase or decrease, and increase in gallonage of the sludge tank capacity made little change in the projections reported in FEIS (1989).

b. An increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution.

c. If the waste disposal ship travels in a waste discharging path that will result in an initial plume width anywhere between 1.5 n mi and 2.0 n mi, a pumping rate of 1400 gpm can be used in the winter season for the discharge of the fish waste. The plume with dilution reaching LPC will remain within the 3 n mi diameter dumpsite with currents up to 0.8 knots.

d. In the summer, the diluted plume reaching LPC will remain within the 3 n mi diameter site with current up to 0.8 knots if the waste dump path is 2.0 n mi and the pumping rate does not exceed 1200 gpm. (This would require an additional 23.8 minutes for complete dumping of the 200,000 gallons as compared with the 1400 gpm pumping rate).

e. The range of current velocities measured by actual movement of the waste field was 0.06 to 0.68 knots with a mean of 0.34 knots. The computer simulated current covers 0.2-0.8 knots. This should cover any contingency for conditions under which the waste vessel would dump.

f. The proposed center of the dumpsite, as described in the FEIS (1989), is located at 14°24.00'S by 170°38.30'W as was approved. The dumpsite is a circle with a diameter of 3 n mi. To achieve the initial dump path (L) of 2.0 n mi, the path should be located at a vertical distance of 1.1 n mi up current from the center of the dumpsite.

g. Gathering of further temperature data might provide information on the range of diffusion coefficients which could perhaps allow an increase in the pumping rate for the summer at the preferred site. Winter is presently defined as June through November and summer is defined as December through May (FEIS, 1989).

h. If the dumpsite were enlarged to 5 n mi at a future date, a pumping rate of 1400 gpm could be used in winter and summer to achieve the LPC dilution at the dumpsite boundary.

Response 3. EPA Region 9 has reviewed the Modeling Report and has determined that in order for the plume to stay within the disposal site boundary, the waste transporter's disposal track must be adjusted from a circle with a radius of 0.2 nautical miles to a line 2.0 nautical miles in length. Although the Modeling Report recommended use of an ellipse of undefined dimensions, EPA Region 9 has specified a line for the disposal track to simplify navigation and disposal operations. This revision, coupled with the new vessel and pumping rates selected,

will permit dilution of the waste plume within the designated disposal site, and, according to the Modeling Report, will permit disposal operations to comply with the LPC.

After EPA Region 9's review of the Modeling Report, we believe that the limitations on the disposal rates of 1,200 gallons per minute in the summer and 1,400 gallons per minute in the winter at a maximum speed of 10 knots will reasonably ensure that the LPC will be met during the winter (June through November) and summer (December through May) periods. Based on the computer modeling results set forth in the Modeling Report, the disposal operations contained in Special Condition 4 of the draft special permit have been revised as follows:

Special Condition 4.3.3. The starting point of the disposal operation was changed from a location "1.2 nautical miles up current from the center of the disposal site. . ." to "1.1 nautical miles up current from the center of the disposal site. . ." This was the point determined in the Modeling Report to provide for a 2.0 nautical mile disposal vessel track within the dump site. Conforming changes were made to Special Conditions 4.3.5.2, 7.1.4.1 and 7.1.4.5 regarding the starting point of the disposal operation.

Special Condition 4.4. The original language contained in the section entitled Disposal Rate and Vessel Speed was replaced with the following:

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

Based on the recommendations of the applicant's modeler, the applicant will be required, as part of the permit's monitoring requirements, to take temperature measurements at the starting point of the disposal operation. The following section therefore has been added to Appendix A:

Special Condition 7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

As part of EPA Region 9's continuing site evaluation process, after disposal operations commence under the new special ocean dumping permit, we will determine whether the disposal operations are actually meeting the criteria defined at 40 C.F.R. § 228.10. If these criteria cannot be met, then we may change the disposal site (see 40 C.F.R. § 228.11), or revise the special ocean dumping permit (see 40 C.F.R. Part 223). Any additional changes to the permit which would necessitate a change in the designated disposal site must be formally requested in a revised permit application.

Comment 4. VCS requested that the requirement for analysis of waste material be changed from monthly to twice yearly based on its conclusion that its waste streams do not vary significantly.

Response 4. EPA Region 9 disagrees with the statement that the waste streams do not vary significantly. All of VCS's research ocean dumping permit data for waste streams collected from March 1987 to the present show extreme variability, including large standard deviations and many outliers. The wide variation in data is the principal reason that EPA Region 9 requested a complete report on VCS's waste stream analyses conducted as part of the research permit program. EPA Region 9 will not reduce the frequency of monitoring or the requirements for monitoring as set forth in the draft special permit published on February 2, 1990.

Comment 5. Typographical errors were found in Special Condition 2.2 of the permit. The size of the designated dump site should be 1.5 nautical miles in radius not 1.5 nautical miles in diameter. The correct coordinates should be 14° 24.00' South latitude by 170° 38.30' West longitude, not 14° 24.00' South latitude by 170° 38.20' West longitude.

Response 5. EPA Region 9 agrees that these were both typographical errors and they have been corrected in the revised draft special permit (see also Comment and Response C.1).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

Enclosure 1

20 MAR 1990

Ms. Kitty Simonds
Western Pacific Regional
Fishery Management Council
1164 Bishop Street, Suite # 1405
Honolulu, HI 96813

RE: Comments on the Fish Cannery Waste Disposal Permits for
America Samoa.

Thank you for your letter February 22, 1990 with comments on
designation of an ocean disposal site off America Samoa and Mr.
Justin Rutka's February 28, 1990 letter requesting a copy of the
Federal Register Final Rule.

EPA has determined that a buoy will not be required to mark
the center of the new disposal site. Navigation to the site will
be accomplished by radar which has been successfully used in the
research permits. The special permits contain provisions for
plotting the disposal operation each time a dump is made. We
will enforce this permit condition to ensure that disposal
complies with it.

As requested, I have enclosed a copy of the Federal Register
notice for the American Samoa disposal site Final Rule. If you
have any questions please contact Patrick Cotter at (415) 705-
2162.

Sincerely,

A handwritten signature in cursive script that reads "Janet Hashimoto".

Janet Hashimoto, Chief
Oceans and Estuaries Section (W-7-1)

Enclosure

cc: John Naughton, NMFS
Ernest Kosaka, USFWS
Pati Faiai, ASEPA
Norman Wei, Star-Kist Foods
James Cox, VCS Samoa Packing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

EPA REGION 9 RESPONSES TO COMMENTS ON
VCS SAMOA PACKING COMPANY'S SPECIAL OCEAN DUMPING PERMIT OD 90-02

COMMENTER A: Mr. John Enright, for the Board of Directors, Le Vaomatua, Pago Pago, American Samoa.

Comment 1. Based on the draft special ocean dumping permit published on February 2, 1990, Le Vaomatua fully supports the final site designation.

Response 1. EPA Region 9 appreciates the support of American Samoa's non-governmental environmental organization. The Final Rule for site designation was published in the Federal Register on February 6, 1990 (55 Fed. Reg. 3948). No objections were received on the Final Rule. The ocean disposal site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. A Final Environmental Impact Statement was issued in March 1989. See Response C.1 regarding corrections of typographical errors to the Final Rule and Response E.5 regarding corrections of typographical errors to the draft special permit.

Comment 2. A buoy should be anchored at the center of the disposal site to facilitate strict compliance with procedures for establishing the exact coordinates of the disposal site by the disposal vessel prior to discharge.

Response 2. EPA Region 9 is satisfied that the requirements set forth in the draft special permit are sufficient to compel the permittee to accurately fix the dump site position. Special Condition 4.5 of the draft special permit requires the permittee to use an onboard electronic positioning system. Special Condition 4.7 of the draft special permit requires the permittee to document where the disposal vessel dumps the fish processing wastes. Special Condition 6.1.3 of the draft special permit authorizes representatives of the American Samoa Environmental Protection Agency and the U.S. Coast Guard Liaison Officer to accompany the disposal vessel as shipriders at the regulatory agencies' option. In addition, a requirement has been added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment. We believe that these requirements are sufficient to document compliance with the special permit conditions. Moreover, research permit records show that the disposal vessel has remained within the disposal site. Therefore, we have decided not to require the permittee to place a marker buoy in the water, which is over 9,000 feet deep. We responded similarly to a request from the Western Pacific Regional Fishery Management Council in a letter dated March 20, 1990 (see Enclosure 1).

CONCURRENCES

SYMBOL	E-4	E-4	ORC	W-7/W-7	W-1		
SURNAME	V. J. Davis	Loveland	Ettinger	W. J. Davis	IC	April 1990	
DATE	4/26/90	4/26/90	4/26/90	4/27/90	4-30		

NOTICE OF APPLICATION AND PROPOSED ACTION
by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION IX
1235 MISSION STREET
SAN FRANCISCO, CALIFORNIA 94103
(415) 705-2162

Revised Applications for Permits to Transport
and Dump Materials into Ocean Waters

Supplemental Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to § 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. § 1401 et seq.) and 40 C.F.R. § 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 Fed. Reg. 2462, Jan. 11, 1977), notice is hereby given by this office of revisions to two draft special permits for the transportation and disposal of fish processing wastes into ocean waters. EPA Region 9 published notices in the San Francisco Chronicle newspaper (February 6, 1990) and the Samoa News newspaper (February 2, 1990) to inform the public that complete applications to dispose of fish processing wastes were received from:

StarKist Foods, Inc.	and	Van Camp Seafood Company, Inc.
180 East Ocean Boulevard		Boatman's Tower
Long Beach, CA 90802		100 North Broadway, Suite 900
		St. Louis, MO 63102

on behalf of their respective subsidiary companies:

StarKist Samoa, Inc.	and	VCS Samoa Packing Company, Inc.
P.O. Box 368		P.O. Box 957
Pago Pago, AS 96799		Pago Pago, AS 96799

As reported in the newspaper public notices, StarKist Samoa and VCS Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, consisting of DAF sludge, precooker water, and presswater. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

Subsequent to the publication of the newspaper notices, requests were made by the applicants during the comment period to make several revisions to the draft special permits. Both applicants requested a change in the disposal vessel. The new ship, the MV ASTRO, which will be used by both StarKist Samoa and VCS Samoa Packing Company, has a 200,000-gallon capacity, which will allow the applicants to dispose of more fish processing wastes on each trip to the disposal site. The former disposal

vessel, the MV MATAORA, had a disposal capacity of 24,000 gallons with a potential to carry 100,000 gallons. In addition, VCS Samoa Packing Company requested an increase in the amount of fish processing wastes authorized for disposal from a total of 56,900 gallons per day to a maximum of 200,000 gallons per day (see Table 1 below). No changes in the types of wastes proposed for disposal at the designated ocean disposal site were requested. VCS Samoa Packing Company's request was based on the need to facilitate compliance with its National Pollutant Discharge Elimination System (NPDES) permit issued under § 402 of the Clean Water Act. Upon learning of the applicants' requests, EPA Region 9 asked the applicants to conduct computer modeling to determine whether the additional fish processing wastes could be dumped by the new disposal vessel at the designated disposal site in compliance with EPA's ocean dumping criteria. (See 40 C.F.R. Parts 220-228). The Final Rule for site designation was published in the Federal Register (55 Fed. Reg. 3948, Feb. 6, 1990). No objections to the Final Rule were received.

SUMMARY OF INFORMATION AND TENTATIVE DETERMINATION

As requested, the applicants conducted computer modeling and submitted to EPA Region 9 a computer modeling report entitled, "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," prepared by SOS Environmental, Inc. and Environmental and Ocean Technology, Inc., March 1990 (referred to as the Modeling Report). Based on our review of the Modeling Report, EPA Region 9 has made the tentative determination to issue a special ocean dumping permit to VCS Samoa Packing Company with a disposal limit of 200,000 gallons per day as specified in Table 1 and to issue special ocean dumping permits to both applicants with the authorization to use the disposal vessel the MV ASTRO. These tentative determinations to issue the special ocean dumping permits are based on EPA Region 9's conclusion that the proposed ocean disposal operations will comply with EPA's Ocean Dumping Criteria at 40 C.F.R. Parts 220-228, provided that certain other changes, as recommended by the Modeling Report, are made to the applicants' February 2, 1990 draft special permits. EPA intends to issue each of these special ocean dumping permits for a three-year period.

TABLE 1.

Waste Material	StarKist Samoa (gallons/day)	VCS Samoa Packing (gallons/day)	Total Permitted Discharge (gallons/day)
DAF Sludge	60,000	60,000	120,000
Precooker Water	100,000	100,000	200,000
Press Water	40,000	40,000	80,000
Total Maximum Daily Volume	200,000	200,000	400,000

The Modeling Report, which took into account the proposed increase in loadings of DAF sludge, precooker water and press water, demonstrated that the Limiting Permissible Concentration (LPC) for the fish processing wastes will be met at the dump site boundary notwithstanding the increased loadings, as long as certain other changes are made to the dumping operations. The Modeling Report concluded the following: 1) changes in vessel size and gallonage of the sludge tank made little change in the projections reported in the 1989 Final Environmental Impact Statement (FEIS); 2) an increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution; 3) the pumping rate should be restricted to 1,400 gallons per minute in the winter and 1,200 gallons per minute in the summer at a maximum speed of 10 knots in order to allow the waste plume to dilute within the dump site boundary and meet the LPC; and 4) the dumping path of 2.0 nautical miles should be centered about a location 1.1 nautical miles up current from the center of the dump site to meet the LPC at the dump site boundary.

EPA Region 9 reviewed the Modeling Report and agreed with virtually all of its conclusions. As a result of EPA Region 9's review of the Modeling Report and other information provided in the applicants' comments and monitoring data, the following changes were made to the February 2, 1990 draft special permits: 1) the owner and name of the disposal vessel were changed to "Pago Marine, Inc." and "MV ASTRO," respectively (page 1 of each permit); 2) increases in the amounts of fish processing wastes authorized for ocean disposal by VCS Samoa Packing Company were made from 56,900 gallons per day to 200,000 gallons per day, as set forth in Table 1 above (Special Conditions 2.3.1 and 2.4.1 of the VCS Samoa Packing Company permit only); 3) new limits were calculated for each regulated parameter for each waste stream to take into account three months of new data submitted by the applicants (Special Condition 2.4.1); 4) new limits were calculated for total solids for each waste stream based on new data submitted by the applicants (Special Condition 2.4.1); 5) the distance that the disposal vessel is required to travel up current from the disposal site center prior to the start of dumping operations was changed from 1.2 nautical miles to 1.1 nautical miles (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5); 6) the dumping method was changed from requiring disposal to take place in a circular pattern pumped at 140 gallons per minute per knot to disposal in a 2.0 nautical mile line pumped at 140 gallons per minute per knot in the winter and at 120 gallons per minute per knot in the summer, not to exceed a vessel speed of 10 knots (Special Condition 4.4); 7) a requirement was added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment; and 8) a requirement for taking temperature measurements was added to the monitoring program (Special Condition 7.2.6).

In addition, two typographical errors were detected and corrected. The diameter of the site was erroneously stated to be 1.5 nautical miles in the February 2, 1990 draft special permits. In actuality, the radius of the disposal site is 1.5 nautical miles (Special Condition 2.2). The longitude of the disposal site center was corrected in both revised draft special permits and the Final Rule to reflect the coordinate published in the Final Environmental Impact Statement, i.e. 170° 38.30' West longitude (Special Condition 2.2).

With these changes to the draft special permits, the proposed ocean dumping of fish processing wastes during the term of the permits is expected to meet EPA's ocean dumping criteria and have a minimal adverse impact on human health and/or the environment. We believe based on our analysis that, notwithstanding the changes made to the draft special permits today, the Agency's ocean dumping criteria (40 C.F.R. Parts 227 and 228) will be met at the 1,500-fathom (9,000 feet) site, located at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. For further information on the designated site, see the Final Rule, 55 Fed. Reg. 3948 (Feb. 6, 1990), the recent technical corrections to the Final Rule to be published in the Federal Register, and the Final Environmental Impact Statement issued in March, 1989.

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within 30 days of the date of this notice, any person may request a public hearing to consider the issuance of, or the conditions to be imposed upon, these permits. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; 3) state any objections to the issuance of, or to the conditions to be imposed upon, these permits; and 4) state the issues which are proposed to be considered at the hearing. Under 40 C.F.R. § 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

In order to avoid delay in the issuance of these permits, EPA Region 9 has tentatively scheduled a public hearing in Pago Pago, American Samoa, on June 7, 1990 at the office of the American Samoa Environmental Protection Agency at 4:00 p.m. However, this hearing will only be held if a specific request is received by the deadline and a determination is made by the EPA Regional Administrator to hold such a hearing. Persons interested in attending the public hearing should check with the person identified below as to whether the public hearing will be held.

Comments on the tentative determination may be submitted in writing within 30 days of the date of publication of this notice to:

Mr. Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
1235 Mission Street
San Francisco, California 94103
Telephone (415) 705-2162

All comments received within 30 days of the date of publication of this notice will be considered in the formulation of final determinations on the special permits.

The Administrative Record, which includes the applications, supporting documentation, the February 2, 1990 draft special permits, the Fact Sheet, the revised draft special permits noticed today, the Addendum to the Fact Sheet, the Modeling Report and other documents, is available for public review Monday through Friday from 9:00 a.m. to 4:00 p.m. at: 1) the EPA Region 9 Library, 1235 Mission Street, Basement Floor, San Francisco, California, (415) 556-6597; 2) the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii, (808) 541-2710; and 3) the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, (684) 633-2304.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF APPLICATION AND PROPOSED ACTION

by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION IX
1235 MISSION STREET
SAN FRANCISCO, CALIFORNIA 94103
(415) 705-2162

Revised Applications for Permits to Transport
and Dump Materials into Ocean Waters

Supplemental Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to § 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. § 1401 et seq.) and 40 C.F.R. § 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 Fed. Reg. 2462, Jan. 11, 1977), notice is hereby given by this office of revisions to two draft special permits for the transportation and disposal of fish processing wastes into ocean waters. EPA Region 9 published notices in the San Francisco Chronicle newspaper (February 6, 1990) and the Samoa News newspaper (February 2, 1990) to inform the public that complete applications to dispose of fish processing wastes were received from:

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180 East Ocean Boulevard
Long Beach, CA 90802

Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, MO 63102

on behalf of their respective subsidiary companies:

StarKist Samoa, Inc. and
P.O. Box 368
Pago Pago, AS 96799

VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, AS 96799

As reported in the newspaper public notices, StarKist Samoa and VCS Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, consisting of DAF sludge, precooker water, and presswater. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

Subsequent to the publication of the newspaper notices, requests were made by the applicants during the comment period to make several revisions to the draft special permits. Both applicants requested a change in the disposal vessel. The new ship, the MV ASTRO, which will be used by both StarKist Samoa and VCS Samoa Packing Company, has a 200,000-gallon capacity, which will allow the applicants to dispose of more fish processing

SYMBOL	Wastes on	each trip to the	disposal site.	The former disposal
E-4	E-4	ORC	W-1	
SURNAME	Hayden	Ellinger	W-1	
DATE	4/26/90	4/26/90	4/27/90	4-30

ADDENDUM TO FACT SHEET
SPECIAL OCEAN DUMPING PERMITS
FOR STAR-KIST SAMOA, INC. (OD 90-01) AND VCS SAMOA PACKING
COMPANY, INC. (OD 90-02) LOCATED IN PAGO PAGO, AMERICAN SAMOA

In February 1990, EPA Region 9 published a Fact Sheet on the above cited draft special ocean dumping permits. As a result of comments received on these draft permits, EPA made several revisions to the draft permits, and has now tentatively decided to proceed with final approval of the revised draft special permits. However, because of the nature and extent of the changes made to the draft special permits, EPA has decided to solicit comment on the revised draft permits prior to their issuance. Most of the revisions to the February 1990 draft permits are identified in the Responses to Comments for each draft permit. However, the changes to the waste material limitations, which were based on the submission of more current data by the applicants and not on comments received, were not set forth in the Responses to Comments and are instead set forth in full, along with the supporting documentation, in this Addendum to the Fact Sheet.

The following table contains the revised waste material limitations for the Star-Kist Samoa draft permit OD 90-01. Appendix A contains the updated data used to calculate the revised waste material limitations. All of the new calculations were performed using the same formulas and assumptions described in the Fact Sheet. In addition, limits for Total Solids have now been calculated and are also reflected in the table below.

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	230,460 mg/L
		BOD ₅	376,520 mg/L
		Total Phosphorus	3,050 mg/L
		Total Nitrogen	18,100 mg/L
		Oil and Grease	129,590 mg/L
		Tot. Vol. Solids	182,210 mg/L
		Density ^c	0.92 to 1.07 g/ml
		Ammonia	7,500 mg/L
Precooker Water ^b	100,000 gal/day	Total Solids	158,290 mg/L
		BOD ₅	365,450 mg/L
		Total Phosphorus	1,150 mg/L
		Total Nitrogen	21,380 mg/L
		Oil and Grease	4,830 mg/L
		Tot. Vol. Solids	146,900 mg/L
		Density ^c	0.97 to 1.06 g/ml
		Ammonia	21,200 mg/L

(Table continued)

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
Press Water ^b	40,000 gal/day	Total Solids	271,920 mg/L
		BOD ₅	399,090 mg/L
		Total Phosphorus	1,990 mg/L
		Total Nitrogen	31,550 mg/L
		Oil and Grease	62,150 mg/L
		Tot. Vol. Solids	385,630 mg/L
		Density ^c	0.96 to 1.07 g/ml
		Ammonia	21,170 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2 of the draft special permit)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

The following table contains the revised waste material limitations for the VCS Samoa Packing Company draft permit OD 90-02. Appendix A contains the updated data used to calculate the revised waste material limitations. All of the new calculations were performed using the same formulas and assumptions described in the Fact Sheet. In addition, limits for Total Solids have now been calculated and are also reflected in the table below. In addition, since the publication of the Fact Sheet, the total daily volume of wastes approved for ocean dumping by VCS Samoa Packing has been increased to the quantities listed below, for a total maximum daily volume of 200,000 gallons/day.

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	492,000 mg/L
		BOD ₅	443,840 mg/L
		Total Phosphorus	3,910 mg/L
		Total Nitrogen	14,950 mg/L
		Oil and Grease	282,750 mg/L
		Tot. Vol. Solids	308,700 mg/L
		Density ^c	0.85 to 1.08 g/ml
		Ammonia	2,570 mg/L

(Table continued)

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
Precooker Water ^b	100,000 gal/day	Total Solids	257,290 mg/L
		BOD ₅	60,220 mg/L
		Total Phosphorus	2,170 mg/L
		Total Nitrogen	20,820 mg/L
		Oil and Grease	207,830 mg/L
		Tot. Vol. Solids	358,180 mg/L
		Density ^c	0.96 to 1.04 g/ml
		Ammonia	2,740 mg/L
Press Water ^b	40,000 gal/day	Total Solids	463,780 mg/L
		BOD ₅	524,270 mg/L
		Total Phosphorus	6,860 mg/L
		Total Nitrogen	32,020 mg/L
		Oil and Grease	386,480 mg/L
		Tot. Vol. Solids	384,560 mg/L
		Density ^c	0.98 to 1.07 g/ml
		Ammonia	4,940 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2 of the draft special permit)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

Additional Information

For further information on the revised special permits, requests for copies of the permits and related documents or questions pertaining to MPRSA regulations, please contact:

Patrick Cotter
Ocean Dumping Coordinator
U.S. EPA Region 9
Oceans and Estuaries Section
(W-7-1)
1235 Mission Street
San Francisco, CA 94103
(415) 705-2162

or Patricia Young
U.S. EPA Region 9
Office of Pacific Island
and Native American
Programs (E-4)
1235 Mission Street
San Francisco, CA 94103
(415) 556-5069

APPENDIX A

UPDATED DATA USED TO CALCULATE
REVISED WASTE MATERIAL LIMITATIONS
FOR
SPECIAL OCEAN DUMPING PERMITS OD 90-01 AND OD 90-02

DAF SLUDGE, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600	3390	4200	42600	6.0	110900	1.07	1305
06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500	7.5	136500	0.95	5550
03/88		261000	117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88		276500	210750	1078	4875	245000	6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500	0.57	915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850	22000	155000	5.9	238000	0.95	1500
05/89	215000		553000	760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500	3450	10200	65000	6.1	135000	0.96	1900
08/89	174500		155250	3450	11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000	5.3	300000	0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
11/89	300000		280000	835	9150	40500	6.2	290000	0.96	855
12/89	172500		36400	850	4300	80500	6.3	170000	0.95	950
01/90	140000		63000	990	7300	17000	6.3	130000	0.88	1400
02/90										
03/90										
04/90										
MAX	315000	276500	553000	3450	22000	245000	7.5	300000	1.07	5550
MIN	109500	50870	8200	150	1478	13000	5.3	51000	0.57	412
MEAN	196136	135266	119532	1414	5720	85176	6.2	148967	0.95	1345
SD	68641	57894	106087	844	3911	51399	0.4	64150	0.08	880
N	11	23	32	34	34	34	34	32	33	32
M + 2	333419	251054	331705	3101	13541	187973	7.1	277267	1.12	3105
M - 2	58854	19478	-92641	-273	-2101	-17621	5.4	20667	0.78	-416

DAF SLUDGE - SAMOA PACKING

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600		4200	42600	6.0	110900	1.07	1305
06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500		136500	0.95	
03/88			117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88			210750	1078	4875		6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500		915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850		155000	5.9	238000	0.95	1500
05/89	215000			760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500		10200	65000	6.1	135000	0.96	1900
08/89	174500		155250		11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000			0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
11/89	300000		280000	835	9150	40500	6.2		0.96	855
12/89	172500		36400	850	4300	80500	6.3	170000	0.95	950
01/90	140000		63000	990	7300	17000	6.3	130000	0.88	1400
02/90										
03/90										
04/90										
MAX	315000	203000	280000	2396	11500	160000	7.0	267000	1.07	2600
MIN	109500	50870	8200	150	1478	13000	5.4	51000	0.81	412
MEAN	196136	122553	105549	1219	5227	80333	6.2	139232	0.96	1209
SD	68641	41586	71863	581	2690	43611	0.4	53184	0.05	438
N	11	21	31	31	33	33	32	30	32	31
OUTL	0	2	1	3	1	1	2	2	1	1

DAF SLUDGE - SAMOA PACKING

Natural Log of Adjusted Data and Calculation of Permit Limits

 $\gamma = 0.95$, $P = 0.95$

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		10.84	11.14	5.99	7.30	10.98	1.87		0.05	
04/87		11.20	11.00	7.43	8.39	11.20	1.82			
05/87		11.84	11.23		8.34	10.66	1.79	11.62	0.07	7.17
06/87		12.09	11.39	6.15	8.22	11.93	1.95	12.04	-0.01	6.86
07/87		11.63	11.12	7.29	8.67	11.45	1.89	11.46	0.00	7.03
08/87		11.67	10.41	5.01	8.19	10.61	1.86	11.57	0.00	6.02
09/87		11.96	11.29	7.38	8.40	11.14	1.79	11.81	-0.03	7.19
10/87		11.57	10.82	7.54	8.96	10.52	1.74	11.33	0.00	7.86
11/87		11.81	11.30	7.14	8.35	10.99	1.77	11.70	-0.05	6.89
12/87										
01/88		11.24	9.91	7.23	7.90	9.47	1.69	11.07	0.00	6.75
02/88		11.89	11.04	6.43	7.35	11.43		11.82	-0.05	
03/88			11.67	7.09	7.76	11.98	1.70	12.41	0.00	7.33
04/88		11.82	11.37	6.52	7.55	11.26	1.89	11.75	-0.04	7.09
05/88		12.07	11.86	6.70	8.54	11.78	1.92	12.01	-0.06	6.78
06/88		11.36	10.97	7.14	8.09	11.37	1.89	11.31	-0.01	7.23
07/88		11.84	12.09	7.73	8.19	11.95	1.86	11.79	-0.11	6.53
08/88		10.89	11.23	7.07	8.41	10.66	1.86	10.84	-0.09	6.71
09/88		11.59	11.44	7.21	8.28	11.50	1.86	11.58	-0.11	6.52
10/88			12.26	6.98	8.49		1.89	12.50	-0.03	6.69
11/88		11.93	11.73	7.73	8.74	11.34	1.89	11.83	-0.02	7.35
12/88		11.32		7.53	8.58	10.72	1.84	11.22		6.82
01/89		12.22		6.61	8.71	11.92	1.72	12.17	-0.05	6.81
02/89		11.94	11.07	7.78	9.05	10.53	1.82	11.78	0.01	7.35
03/89	11.60		11.24	6.84	7.94	11.10	1.84	11.54	-0.21	6.87
04/89	12.44		12.38	7.52		11.95	1.77	12.38	-0.05	7.31
05/89	12.28			6.63	9.20	11.70	1.81	12.24	-0.11	7.08
06/89	11.72		9.01	6.57	7.94	10.79	1.86	11.66	-0.09	7.38
07/89	11.95		11.43		9.23	11.08	1.81	11.81	-0.04	7.55
08/89	12.07		11.95		9.35	9.95	1.79	11.97	-0.04	7.41
09/89	12.66		12.51	7.52	9.22	11.70			-0.01	7.38
10/89	12.21		12.28	6.89	8.50	11.70	1.84	12.15	-0.07	7.24
11/89	12.61		12.54	6.73	9.12	10.61	1.82		-0.04	6.75
12/89	12.06		10.50	6.75	8.37	11.30	1.84	12.04	-0.05	6.86
01/90	11.85		11.05	6.90	8.90	9.74	1.84	11.78	-0.13	7.24
02/90										
03/90										
04/90										
MEAN	12.13	11.65	11.33	6.97	8.43	11.12	1.83	11.77	-0.04	7.03
SD	0.35	0.38	0.75	0.59	0.53	0.64	0.06	0.39	0.05	0.37
N	11	21	31	31	33	33	32	30	32	31
LN PL	13.11	12.56	13.00	8.27	9.61	12.55	1.96	12.64	0.08	7.85
LIMIT	491998	285817	443839	3910	14951	282750	7.1	308700	1.08	2571
density range									-0.16	
									0.85	

PRECOOKER WATER, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400	1295	8190	3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120
07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780	340000	7.5	89400	0.97	5000
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88		724000	419000	282	1534	550000	6.8	714000	0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89	602000			112	1000	180000	6.3	599000	0.93	2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
11/89	71000		34000	280	1600	4100	6.2	62000	0.98	230
12/89	55000		26800	110	1000	620	6.2	52000	1.00	42
01/90	52000		14000	690	7900	810	6.3	45000	1.02	160
02/90										
03/90										
04/90										
MAX	602000	724000	419000	1295	8190	550000	7.5	714000	1.02	5000
MIN	20400	1580	7600	8	35	92	5.4	500	0.93	2
MEAN	107018	63910	34512	381	3244	40538	6.3	74545	1.00	435
SD	169112	150599	74613	273	2226	112390	0.4	156947	0.02	935
N	11	22	29	33	33	33	33	32	32	32
M + 2	445243	365108	183738	926	7697	265317	7.1	388438	1.04	2304
M - 2	-231206	-237288	-114713	-164	-1209	-184241	5.4	-239348	0.95	-1435

PRECOOKER WATER - SAMOA PACKING

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400			3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120
07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780			89400	0.97	
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88				282	1534		6.8		0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89				112	1000	180000	6.3			2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
11/89	71000		34000	280	1600	4100	6.2	62000	0.98	230
12/89	55000		26800	110	1000	620	6.2	52000	1.00	42
01/90	52000		14000	690		810	6.3	45000	1.02	160
02/90										
03/90										
04/90										
MAX	172000	102000	37986	790	7300	180000	7.0	164000	1.02	1600
MIN	20400	1580	7600	8	35	92	5.4	500	0.96	2
MEAN	57520	32477	20781	352	2934	14443	6.2	35748	1.00	288
SD	42794	31475	10123	221	1910	33599	0.3	34485	0.02	431
N	10	21	28	32	31	31	32	30	31	31
OUTLI	1	1	1	1	2	2	1	2	1	1

PRECOOKER WATER - SAMOA PACKLING

Natural Log of Adjusted Data and Calculations of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		9.08	10.54	3.87	6.72	10.63	1.82			
05/87		10.92	10.35			8.27	1.79	10.59	0.02	5.38
06/87		11.33	10.45	6.13	8.16	10.32	1.95	11.26	0.01	4.79
07/87		10.85	9.77	6.01	8.45	8.66	1.89	10.27	0.02	4.54
08/87		11.53	10.44	4.52	7.97	10.89	1.86	11.40	0.01	7.12
09/87		10.41	9.71	5.90	7.65	8.05	1.79	10.23	0.01	5.34
10/87		10.22	9.51	6.08	8.20	7.38	1.74	9.92	0.01	6.35
11/87		10.99	10.40	6.61	8.53	9.95	1.77	10.71	-0.04	5.30
12/87										
01/88		10.15	9.28	5.77	7.87	6.98	1.69	9.87	0.00	5.39
02/88		11.44	9.25	5.48	7.48			11.40	-0.03	
03/88		9.49	9.46	5.33	7.30	7.24	1.70	9.01	0.00	6.80
04/88		7.37		2.08	3.56	4.52	1.89	6.21	0.00	1.95
05/88				5.64	7.34		1.92		-0.04	4.76
06/88		7.94	9.05	5.49	7.58	5.60	1.89	7.88	0.00	4.09
07/88		8.22	10.03	6.47	8.72	5.08	1.86	8.22	-0.01	4.62
08/88		8.26	8.94	5.41	7.77	5.48	1.86	8.20	-0.01	4.09
09/88		8.13	9.97	6.47	8.07	10.24	1.87	10.68	-0.02	5.46
10/88		9.43	8.94	4.86	7.23	8.50	1.86	9.22	0.00	5.09
11/88		10.83	10.39	5.99	8.34	9.68	1.86	10.68	0.02	7.38
12/88		8.08		4.49	6.04	6.97	1.82	7.52	-0.04	4.08
01/89		10.23		6.44	8.01	7.31	1.84	9.57	0.01	7.35
02/89		9.90	9.04	5.24	7.35	6.27	1.79	9.55	0.00	3.91
03/89	9.92		9.10	5.30	7.30	5.94	1.79	9.57	0.01	4.33
04/89	10.59		10.41	6.04	8.65	9.18	1.82	10.41	0.01	4.33
05/89				4.72	6.91	12.10	1.84			0.69
06/89	12.06		9.85	5.89	7.65	10.17	1.84	12.01	0.00	4.20
07/89	10.93		9.80	6.67	8.90	6.72	1.77	10.55	0.02	4.70
08/89	10.67		10.23	6.40	8.67	9.05	1.77	10.37	0.00	5.30
09/89	10.24		9.47	5.67	8.58	5.25	1.82	9.95	0.01	4.33
10/89	10.55		10.17	6.45	8.58	6.59	1.79	10.24	0.02	4.58
11/89	11.17		10.43	5.63	7.38	8.32	1.82	11.03	-0.02	5.44
12/89	10.92		10.20	4.70	6.91	6.43	1.82	10.86	0.00	3.74
01/90	10.86		9.55	6.54		6.70	1.84	10.71	0.02	5.08
02/90										
03/90										
04/90										
MEAN	10.79	9.75	9.81	5.57	7.67	7.89	1.83	9.94	0.00	4.86
SD	0.57	1.31	0.54	0.95	1.02	1.96	0.06	1.28	0.02	1.38
N	10	21	28	32	31	31	32	30	31	31
LN PL	12.46	12.86	11.01	7.68	9.94	12.24	1.95	12.79	0.04	7.92
LIMIT	257289	386510	60215	2174	20815	207826	7.0	358177	1.04	2738
density range									-0.04 0.96	

PRESS WATER, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5			
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05	493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05	1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05	2300
08/87		280000	213000	1820	21915	117000	6.6	253000	0.94	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01	362
10/87		441000	188000	11360	10752	250000	6.1	409000	1.04	5800
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00	540
12/87										
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03	759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98	3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03	430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04	1920
05/88		276500	140000	1902	17025	92500	7.5	248000	1.03	306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05	351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00	286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02	1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02	74Q
10/88		540000	25700	1360	10500	390000	6.5	527000	0.99	530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04	1700
12/88		225000		1532	10880	87300	6.1	197000	0.93	820
01/89		273000		1656	12060	250000	6.2	252000	1.05	1110
02/89		315000	460000	3587	12623	260000	5.9	295000	1.02	821
03/89	306000		140000	1460	48000	25000	5.7	279000	1.01	254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01	390
05/89	459000		161000	1432	14000	150000	6.3	439000	1.00	310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03	4750
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03	280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02	440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03	3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03	610
11/89	220000		200000	2000	13000	53000	6.7	200000	1.04	2200
12/89	400000		31830	1420	12000	130000	6.1	370000	1.00	400
01/90	230000		77000	1800	19000	29000	6.1	200000	1.10	2400
02/90										
03/90										
04/90										
MAX	459000	540000	460000	11360	48000	390000	7.5	527000	1.10	5800
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.93	254
MEAN	277455	287222	162566	2075	15622	126506	6.3	259444	1.02	1362
SD	82616	79926	84893	1793	8061	79290	0.4	80584	0.03	1401
N	11	22	31	33	32	33	33	32	32	32
M + 2	442687	447073	332351	5660	31744	285086	7.2	420612	1.09	4164
M - 2	112222	127371	-7219	-1510	-499	-32074	5.5	98275	0.96	-1439

PRESS WATER - SAMOA PACKING
Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5		
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05 493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05 1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05 2300
08/87		280000	213000	1820	21915	117000	6.6	253000	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01 362
10/87		441000	188000		10752	250000	6.1	409000	1.04
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00 540
12/87									
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03 759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98 3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03 430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04 1920
05/88		276500	140000	1902	17025	92500		248000	1.03 306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05 351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00 286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02 1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02 740
10/88			25700	1360	10500		6.5		0.99 530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04 1700
12/88		225000		1532	10880	87300	6.1	197000	820
01/89		273000		1656	12060	250000	6.2	252000	1.05 1110
02/89		315000		3587	12623	260000	5.9	295000	1.02 821
03/89	306000		140000	1460		25000	5.7	279000	1.01 254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01 390
05/89			161000	1432	14000	150000	6.3		1.00 310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03 280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02 440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03 3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03 610
11/89	220000		200000	2000	13000	53000	6.7	200000	1.04 2200
12/89	400000		31830	1420	12000	130000	6.1	370000	1.00 400
01/90	230000		77000	1800	19000	29000	6.1	200000	2400
02/90									
03/90									
04/90									
MAX	400000	441000	280000	3810	30000	260000	7.1	409000	1.05 3900
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.98 254
MEAN	259300	275185	152652	1785	14578	118272	6.3	244540	1.02 1101
SD	59629	57970	65597	670	5574	64653	0.4	55961	0.02 976
N	10	21	30	32	31	32	32	30	29 30
OUTLI	1	1	1	1	1	1	1	2	3 2

PRESS WATER - SAMOA PACKING

Natural Log of Adjusted Data and Calculation of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		12.30	11.06	4.09		11.28	1.87			
05/87		12.56	11.80	8.25	9.10	11.79	1.92	12.45	0.05	6.20
06/87		12.65	11.88	7.76	10.00	12.02	1.92	12.55	0.05	7.39
07/87		12.64	11.98	7.77	9.28	11.90	1.92	12.43	0.05	7.74
08/87		12.54	12.27	7.51	9.99	11.67	1.89	12.44		7.87
09/87		12.42	12.19	7.75	9.41	11.31	1.72	12.22	0.01	5.89
10/87		13.00	12.14		9.28	12.43	1.81	12.92	0.04	
11/87		12.15	11.66	7.18	9.33	11.10	1.87	11.96	0.00	6.29
12/87										
01/88		12.60	11.71	7.71	9.87	10.84	1.81	12.51	0.03	6.63
02/88		12.86	11.78	7.26	10.00	12.25	1.92	12.73	-0.02	8.03
03/88		12.45	12.02	7.29	9.33	11.61	1.79	12.33	0.03	6.06
04/88		12.50	12.32	7.52	8.92	11.53	1.82	12.40	0.04	7.56
05/88		12.53	11.85	7.55	9.74	11.43		12.42	0.03	5.72
06/88		12.24	12.01	7.54	9.53	11.61	1.92	12.22	0.05	5.86
07/88		12.53	12.25	7.38	9.23	12.15	1.81	12.52	0.00	5.66
08/88		12.37	12.03	7.41	8.75	11.70	1.82	12.36	0.02	6.99
09/88		12.46	12.45	7.02	8.67	12.10	1.82	12.27	0.02	6.61
10/88			10.15	7.22	9.26		1.87		-0.01	6.27
11/88		12.33	11.53	7.42	9.79	11.28	1.82	12.24	0.04	7.44
12/88		12.32		7.33	9.29	11.38	1.81	12.19		6.71
01/89		12.52		7.41	9.40	12.43	1.82	12.44	0.05	7.01
02/89		12.66		8.19	9.44	12.47	1.77	12.59	0.02	6.71
03/89	12.63		11.85	7.29		10.13	1.74	12.54	0.01	5.54
04/89	12.57		12.51	7.31	10.31	11.03	1.82	12.51	0.01	5.97
05/89			11.99	7.27	9.55	11.92	1.84		0.00	5.74
06/89	12.25		11.98	6.95	9.43	12.07	1.96	12.13	0.03	
07/89	12.35		11.92	7.60	9.57	10.97	1.77	12.21	0.03	5.63
08/89	12.26		10.23	7.65	9.90	11.38	1.77	12.12	0.02	6.09
09/89	12.51		12.54	7.50	10.00	11.51	1.93	12.39	0.03	8.27
10/89	12.35		11.98	7.38	9.90	10.43	1.77	12.21	0.03	6.41
11/89	12.30		12.21	7.60	9.47	10.88	1.90	12.21	0.04	7.70
12/89	12.90		10.37	7.26	9.39	11.78	1.81	12.82	0.00	5.99
01/90	12.35		11.25	7.50	9.85	10.28	1.81	12.21		7.78
02/90										
03/90										
04/90										
MEAN	12.45	12.51	11.80	7.37	9.52	11.52	1.84	12.38	0.02	6.66
SD	0.21	0.20	0.62	0.66	0.39	0.61	0.06	0.21	0.02	0.83
N	10	21	30	32	31	32	32	30	29	30
LN PL	13.05	12.97	13.17	8.83	10.37	12.86	1.97	12.86	0.07	8.51
LIMIT	463783	430483	524270	6860	32017	386478	7.2	384561	1.07	4941
density range									-0.02 0.98	

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		124590	297750	1444	5728	5054	6.0	820000	1.01	2175
04/87		151960	235000	1014	12600	30141	6.2	775000	0.91	1350
05/87		154788	147000	634	7000	20222	5.1	849000	0.98	842
06/87		107490	179250	1398	6050	50011	6.0	819000	0.97	2810
07/87		175580	243750	2165	6381	16086	6.0	162615	0.70	1775
08/87		188590	99500	1732	4975	35977	6.0	178079	0.94	4375
09/87		118170	337500	1742	1525	8051	5.7	133000	0.99	
10/87		132000	281250	1240	6742	72000	6.5	137000	0.94	608
11/87		85000		1420	5490	49000	6.5	84950	1.00	1675
12/87		109750	168450	2408	8957	52500	5.9	138350	1.01	3847
01/88		83250	130280	914	10085	13434	6.5	106950	0.91	935
02/88		96400	180740	1674	7630	61500	6.5	96750	1.03	2350
03/88		115000	180740	1674	7430	61500	6.5	136000	1.01	2350
04/88		94100	199036	686	1880	63000	5.7	120000	1.00	793
05/88		79000	227344	1842	8545	75500	5.6	110500	1.02	2085
06/88		80000	227344	1842	5875	64500	5.6	108000	1.02	2085
07/88		56850	232000	1552	3575	41000	5.5	81500	1.01	1570
08/88		82500	216000	1088	6500	57000	5.9	81450	0.95	2810
09/88		60750	244500	2302	4000	45000	5.9	97500	0.99	2440
10/88		92000	215000	1002	5788	44500	5.4	117000	1.01	2775
11/88		65500	204500	350	7013	47500	5.5	86850	1.01	5550
12/88		67000	374250	1418	6750	81000	5.6	133000	1.01	8900
01/89		76000	138000	788	4485	63000	6.8	104500	1.01	1950
02/89		65500	194000	530	7025	61000	5.5	87850	0.99	550
03/89		75000	153000	1248	10000	55000	5.7	106000	1.00	1280
04/89	174000	141500	335500	746	19000	78500	5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	59000	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	78000	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	72500	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	28500	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	55500	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	50000	5.9	135000	1.03	925
11/89	110000	85000		704	1550	32000	5.6	91000	1.02	325
12/89	155000	130000		1382	4000	53000	5.8	135000	1.02	1350
01/90										
02/90										
03/90										
04/90										
MAX	174000	188590	374250	2408	19000	81000	6.8	849000	1.03	8900
MIN	110000	39650	99500	350	1525	5054	5.1	81450	0.70	195
MEAN	142889	101218	212041	1235	6654	49426	5.9	198863	0.99	1994
SD	22335	34125	65552	534	3355	20594	0.4	230011	0.06	1721
N	9	34	29	34	34	34	34	34	34	33
M + 2	187559	169467	343145	2304	13363	90613	6.7	658885	1.11	5436
M - 2	98218	32969	80937	167	-55	8238	5.1	-261159	0.87	-1447

DAF SLUDGE - STARKIST SAMOA

Adjusted Data, Outliers > Mean + 2 Standard Deviations

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3	
03/87	124590	297750	1444	5728		6.0		1.01	2175	
04/87	151960	235000	1014	12600	30141	6.2		0.91	1350	
05/87	154788	147000	634	7000	20222	5.1		0.98	842	
06/87	107490	179250	1398	6050	50011	6.0		0.97	2810	
07/87		243750	2165	6381	16086	6.0	162615		1775	
08/87		99500	1732	4975	35977	6.0	178079	0.94	4375	
09/87	118170	337500	1742	1525		5.7	133000	0.99		
10/87	132000	281250	1240	6742	72000	6.5	137000	0.94	608	
11/87	85000		1420	5490	49000	6.5	84950	1.00	1675	
12/87	109750	168450		8957	52500	5.9	138350	1.01	3847	
01/88	83250	130280	914	10085	13434	6.5	106950	0.91	935	
02/88	96400	180740	1674	7630	61500	6.5	96750	1.03	2350	
03/88	115000	180740	1674	7430	61500	6.5	136000	1.01	2350	
04/88	94100	199036	686	1880	63000	5.7	120000	1.00	793	
05/88	79000	227344	1842	8545	75500	5.6	110500	1.02	2085	
06/88	80000	227344	1842	5875	64500	5.6	108000	1.02	2085	
07/88	56850	232000	1552	3575	41000	5.5	81500	1.01	1570	
08/88	82500	216000	1088	6500	57000	5.9	81450	0.95	2810	
09/88	60750	244500	2302	4000	45000	5.9	97500	0.99	2440	
10/88	92000	215000	1002	5788	44500	5.4	117000	1.01	2775	
11/88	65500	204500	350	7013	47500	5.5	86850	1.01	5550	
12/88	67000		1418	6750	81000	5.6	133000	1.01		
01/89	76000	138000	788	4485	63000		104500	1.01	1950	
02/89	65500	194000	530	7025	61000	5.5	87850	0.99	550	
03/89	75000	153000	1248	10000	55000	5.7	106000	1.00	1280	
04/89	174000	141500	335500	746		78500	5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	59000	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	78000	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	72500	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	28500	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	55500	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	50000	5.9	135000	1.03	925
11/89	110000	85000		704	1550	32000	5.6	91000	1.02	325
12/89	155000	130000		1382	4000	53000	5.8	135000	1.02	1350
01/90										
02/90										
03/90										
04/90										
MAX	174000	154788	337500	2302	12600	81000	6.5	178079	1.03	5550
MIN	110000	39650	99500	350	1525	13434	5.1	81450	0.91	195
MEAN	142889	96164	206248	1200	6280	52105	5.8	116611	1.00	1779
SD	22335	28082	58710	500	2588	18037	0.4	24856	0.03	1212
N	9	32	28	33	33	32	33	30	33	32
OUTL	0	2	1	1	1	2	1	4	1	1

DAF SLUDGE - STARKIST SAMC

Natural Log of Adjusted Data and Calculation of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		11.73	12.60	7.28	8.65		1.79		0.01	7.68
04/87		11.93	12.37	6.92	9.44	10.31	1.82		-0.09	7.21
05/87		11.95	11.90	6.45	8.85	9.91	1.64		-0.02	6.74
06/87		11.59	12.10	7.24	8.71	10.82	1.79		-0.03	7.94
07/87			12.40	7.68	8.76	9.69	1.79	12.00		7.48
08/87			11.51	7.46	8.51	10.49	1.79	12.09	-0.06	8.38
09/87		11.68	12.73	7.46	7.33		1.74	11.80	-0.02	
10/87		11.79	12.55	7.12	8.82	11.18	1.87	11.83	-0.06	6.41
11/87		11.35		7.26	8.61	10.80	1.87	11.35	0.00	7.42
12/87		11.61	12.03		9.10	10.87	1.77	11.84	0.01	8.26
01/88		11.33	11.78	6.82	9.22	9.51	1.87	11.58	-0.09	6.84
02/88		11.48	12.10	7.42	8.94	11.03	1.87	11.48	0.03	7.76
03/88		11.65	12.10	7.42	8.91	11.03	1.87	11.82	0.01	7.76
04/88		11.45	12.20	6.53	7.54	11.05	1.74	11.70	0.00	6.68
05/88		11.28	12.33	7.52	9.05	11.23	1.72	11.61	0.02	7.64
06/88		11.29	12.33	7.52	8.68	11.07	1.72	11.59	0.01	7.64
07/88		10.95	12.35	7.35	8.18	10.62	1.71	11.31	0.01	7.36
08/88		11.32	12.28	6.99	8.78	10.95	1.77	11.31	-0.05	7.94
09/88		11.01	12.41	7.74	8.29	10.71	1.77	11.49	-0.01	7.80
10/88		11.43	12.28	6.91	8.66	10.70	1.69	11.67	0.01	7.93
11/88		11.09	12.23	5.86	8.86	10.77	1.70	11.37	0.01	8.62
12/88		11.11		7.26	8.82	11.30	1.72	11.80	0.01	
01/89		11.24	11.84	6.67	8.41	11.05		11.56	0.01	7.58
02/89		11.09	12.18	6.27	8.86	11.02	1.70	11.38	-0.01	6.31
03/89		11.23	11.94	7.13	9.21	10.92	1.74	11.57	0.00	7.15
04/89	12.07	11.86	12.72	6.61		11.27	1.69	11.92	0.00	6.91
05/89	11.68	11.54	11.94	6.17	8.65	10.99	1.72	11.47	-0.01	6.17
06/89	11.84	11.39	12.25	6.34	7.63	11.26	1.82	11.68	0.02	6.78
07/89	11.98	10.59	11.81	6.83	9.12	11.19	1.77	11.85	0.02	7.63
08/89	11.70	11.48		6.82	9.07	10.26	1.72	11.51	0.03	6.60
09/89	11.92	11.51	12.25	6.97	9.10	10.92	1.72	11.74	0.02	5.27
10/89	11.98	11.70		7.00	8.56	10.82	1.77	11.81	0.03	6.83
11/89	11.61	11.35		6.56	7.35	10.37	1.72	11.42	0.02	5.78
12/89	11.95	11.78		7.23	8.29	10.88	1.76	11.81	0.02	7.21
01/90										
02/90										
03/90										
04/90										
MEAN	11.86	11.43	12.20	6.99	8.63	10.78	1.76	11.65	-0.01	7.24
SD	0.16	0.31	0.29	0.46	0.53	0.45	0.06	0.21	0.03	0.76
N	9	32	28	33	33	32	33	30	33	32
LN PL	12.35	12.11	12.84	8.02	9.80	11.77	1.90	12.11	0.07	8.92
LIMIT	230456	181858	376521	3046	18100	129589	6.7	182214	1.07	7501
density range									-0.08	
									0.92	

PRECOOKER WATER STARKIST SAMOA

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89	18700	1867	59500	380	3400	2600	5.6	13400	1.00	574
05/89	69700	11200	79500	1844	8100	690	6.2	53000	1.02	204
06/89	119000	25400	97500	618	7900	23000	6.0	96000	1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	13667
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100	369750	438	11000	840	5.9	47000	1.02	16000
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
11/89	72000	2500		364	6700	600	6.3	53000	1.03	9250
12/89	71000	3900		1660	8600	1300	5.6	49000	1.04	6300
01/90										
02/90										
03/90										
04/90										
MAX	119000	25400	369750	1844	11000	23000	6.3	96000	1.04	16000
MIN	18700	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	73711	4581	121297	597	4846	2383	5.9	31351	1.01	2988
SD	27393	5690	81931	416	3258	4866	0.3	25143	0.02	4460
N	9	22	18	22	22	22	22	22	22	22
M + 2	128496	15962	285159	1430	11362	12116	6.5	81638	1.05	11908
M - 2	18926	-6800	-42564	-235	-1670	-7349	5.4	-18936	0.97	-5933

PRECOOKER WATER - STARKIST SAMOA

Natural Log of Adjusted Data and Calculation of Permit Limit
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		7.51	12.04	6.75	7.66	6.09	1.82	9.80	-0.01	5.31
07/88		8.17	12.17	6.48	8.05	6.46	1.77	9.95	-0.01	5.18
07/88		8.16	12.17	5.52	7.74	7.09	1.81	9.97	0.00	5.19
07/88		7.73	12.29	5.97	8.06	7.09	1.77	9.93	-0.02	5.44
07/88		7.92	11.46	6.53	8.39	6.67	1.72	10.15	-0.01	7.84
08/88		7.70	10.99	6.43	8.29	6.61	1.81	9.92	-0.01	6.92
09/88		7.60	11.04	6.33	7.57	6.91	1.84	9.53	0.00	7.79
10/88		7.50	11.34	5.94	7.20	7.70	1.72	8.82	0.02	6.28
11/88		7.29	10.09	5.69	7.29	6.67	1.72	9.31	-0.02	7.95
12/88		7.38	11.54	6.74	8.54	8.99	1.70	8.41	0.00	8.23
01/89		7.37	11.28	6.16	7.17	6.82	1.79	9.39	0.01	7.72
02/89		7.50	11.77	5.63	7.29	6.75	1.72	8.68	0.01	4.55
03/89		7.90	11.18	5.63	7.54	6.82	1.84	9.34	0.00	5.34
04/89		7.53	10.99	5.94	8.13	7.86	1.72	9.50	0.00	6.35
05/89	11.15	9.32	11.28		9.00	6.54	1.82	10.88	0.02	5.32
06/89	11.69		11.49	6.43	8.97		1.79		0.03	6.75
07/89	11.34	8.56	11.47	6.44	8.97	6.58	1.81	11.00	0.04	
08/89	11.50	9.62		5.58	9.31	6.79	1.84	11.24	0.03	7.60
09/89	11.07	8.32		6.08	9.31	6.73	1.77	10.76	0.02	
10/89	11.10	7.86		5.90	9.04	7.65	1.82	10.82	0.04	6.19
11/89	11.18	7.82		5.90	8.81	6.40	1.84	10.88	0.03	9.13
12/89	11.17	8.27			9.06	7.17	1.72	10.80	0.04	8.75
01/90										
02/90										
03/90										
04/90										
MEAN	11.27	7.95	11.45	6.10	8.24	6.97	1.78	9.96	0.01	6.69
SD	0.22	0.61	0.55	0.39	0.73	0.64	0.05	0.82	0.02	1.37
N	8	21	17	20	22	21	22	21	22	20
LN PL	11.97	9.41	12.81	7.04	9.97	8.48	1.89	11.90	0.05	9.96
LIMIT	158285	12158	365446	1145	21381	4827	6.6	146899	1.06	21202
density range									-0.04 0.97	

PRECOOKER WATER - STARKIST SAMOA

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	TVS	DENS	NH3	
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89		1867	59500	380	3400	2600	5.6	13400	1.00	574
05/89	69700	11200	79500		8100	690	6.2	53000	1.02	204
06/89	119000		97500	618	7900		6.0		1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100		438	11000	840	5.9	47000	1.02	
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
11/89	72000	2500		364	6700	600	6.3	53000	1.03	9250
12/89	71000	3900			8600	1300	5.6	49000	1.04	6300
01/90										
02/90										
03/90										
04/90										
MAX	119000	15000	218500	856	11000	8000	6.3	76000	1.04	9250
MIN	64000	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	80588	3590	106682	482	4846	1402	5.9	28272	1.01	1803
SD	19266	3361	55201	190	3258	1612	0.3	21092	0.02	2366
N	8	21	17	20	22	21	22	21	22	20
OUTLI	1	1	1	2	0	1	0	1	0	2

PRESS WATER, STAKIST SAMOA

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000	3.3	60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89	91100	56600	99500	854	13000	37000	5.9	82600	1.01	1390
05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000	170000	231500	528	4440	71000	6.2	190000	1.04	28667
08/89	210000	130000		922	21000	24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
11/89	180000	120000		1122	10100	25000	6.2	170000	1.03	6600
12/89	180000	110000		1520	13000	38000	5.9	160000	1.04	4150
01/90										
02/90										
03/90										
04/90										
MAX	220000	170000	283000	1520	21000	71000	6.4	200000	1.05	28667
MIN	91100	12000	94000	327	2200	5800	3.3	20900	0.98	84
MEAN	185900	66566	165070	825	8673	23945	5.9	100498	1.01	3412
SD	39975	46761	65105	336	5604	14593	0.6	61507	0.02	5954
N	9	22	18	22	22	22	22	22	22	22
M + 2	265850	160088	295280	1496	19882	53132	7.2	223512	1.06	15319
M - 2	105950	-26956	34860	153	-2535	-5241	4.7	-22516	0.97	-8496

PRESS WATER - STARKIST SAMOA

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000		60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89		56600	99500	854	13000	37000	5.9	82600	1.01	1390
05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000		231500	528	4440		6.2	190000	1.04	
08/89	210000	130000		922		24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
11/89	180000	120000		1122	10100	25000	6.2	170000	1.03	6600
12/89	180000	110000			13000	38000	5.9	160000	1.04	4150
01/90										
02/90										
03/90										
04/90										
MAX	220000	130000	283000	1364	18000	45000	6.4	200000	1.05	6600
MIN	167000	12000	94000	327	2200	5800	5.6	20900	0.98	84
MEAN	197750	61640	165070	792	8086	21705	6.1	100498	1.01	2209
SD	19543	41660	65105	305	5002	10375	0.2	61507	0.02	1952
N	8	21	18	21	21	21	21	22	22	21
OUTLI	1	1	0	1	1	1	1	0	0	1

PRESS WATER - STARKIST SAMOA

Natural Log of Adjusted Data and Calculations of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		10.97	12.29	6.95	8.98	9.95	1.81	11.07	0.00	6.02
07/88		10.48	12.48	5.96	8.12	9.21		11.02	0.00	5.75
07/88		10.57	12.46	6.31	8.23	9.85	1.79	11.12	0.00	6.08
07/88		10.30	12.55	5.93	8.54	9.47	1.84	10.93	-0.02	6.71
07/88		10.60	11.61	6.79	9.05	9.74	1.77	11.10	-0.01	8.55
08/88		10.71	11.59	6.81	8.93	9.80	1.86	11.18	0.00	8.49
09/88		9.49	11.46	6.92	7.70	9.47	1.84	10.74	0.01	7.51
10/88		9.90	11.45	6.69	8.16	9.74	1.72	10.52	0.01	4.43
11/88		10.19	11.72	5.79	8.24	9.74	1.77	10.86	0.00	7.68
12/88		10.03	11.50	7.01	7.77	9.74	1.79	10.47	-0.02	8.00
01/89		10.79	11.83	6.25	8.71	9.85	1.80	11.26	0.00	8.20
02/89		9.39	12.01	6.31	8.19	9.47	1.77	9.95	-0.02	8.52
03/89		10.48	11.85	6.45	9.28	9.85	1.82	11.01	0.01	5.92
04/89		10.94	11.51	6.75	9.47	10.52	1.78	11.32	0.01	7.24
05/89	12.03	11.45	11.88	7.22	9.61	10.28	1.81	11.85	0.02	7.01
06/89	12.28	11.67	12.09	6.22	9.20	8.67	1.79	12.17	0.04	5.93
07/89	12.25		12.35	6.27	8.40		1.82	12.15	0.04	
08/89	12.25	11.78		6.83		10.09	1.81	12.10	0.05	7.31
09/89	12.21	11.78	12.33	6.90	9.80	10.57	1.79	12.10	0.03	7.60
10/89	12.30	11.61		7.13	9.80	10.71	1.81	12.21	0.05	7.05
11/89	12.10	11.70		7.02	9.22	10.13	1.82	12.04	0.03	8.79
12/89	12.10	11.61			9.47	10.55	1.77	11.98	0.04	8.33
01/90										
02/90										
03/90										
04/90										
MEAN	12.19	10.78	11.94	6.59	8.80	9.88	1.80	11.32	0.01	7.20
SD	0.10	0.75	0.39	0.42	0.66	0.49	0.03	0.65	0.02	1.17
N	8	21	18	21	21	21	21	22	22	21
LN PL	12.51	12.56	12.90	7.60	10.36	11.04	1.87	12.86	0.06	9.96
LIMIT	271916	285535	399089	1989	31554	62154	6.5	385630	1.07	21173
density range									-0.04	
									0.96	

ADDENDUM TO FACT SHEET
SPECIAL OCEAN DUMPING PERMITS
FOR STAR-KIST SAMOA, INC. (OD 90-01) AND VCS SAMOA PACKING
COMPANY, INC. (OD 90-02) LOCATED IN PAGO PAGO, AMERICAN SAMOA

In February 1990, EPA Region 9 published a Fact Sheet on the above cited draft special ocean dumping permits. As a result of comments received on these draft permits, EPA made several revisions to the draft permits, and has now tentatively decided to proceed with final approval of the revised draft special permits. However, because of the nature and extent of the changes made to the draft special permits, EPA has decided to solicit comment on the revised draft permits prior to their issuance. Most of the revisions to the February 1990 draft permits are identified in the Responses to Comments for each draft permit. However, the changes to the waste material limitations, which were based on the submission of more current data by the applicants and not on comments received, were not set forth in the Responses to Comments and are instead set forth in full, along with the supporting documentation, in this Addendum to the Fact Sheet.

The following table contains the revised waste material limitations for the Star-Kist Samoa draft permit OD 90-01. Appendix A contains the updated data used to calculate the revised waste material limitations. All of the new calculations were performed using the same formulas and assumptions described in the Fact Sheet. In addition, limits for Total Solids have now been calculated and are also reflected in the table below.

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	230,460 mg/L
		BOD ₅	376,520 mg/L
		Total Phosphorus	3,050 mg/L
		Total Nitrogen	18,100 mg/L
		Oil and Grease	129,590 mg/L
		Tot. Vol. Solids	182,210 mg/L
		Density ^c	0.92 to 1.07 g/ml
		Ammonia	7,500 mg/L
Precooker Water ^b	100,000 gal/day	Total Solids	158,290 mg/L
		BOD ₅	365,450 mg/L
		Total Phosphorus	1,150 mg/L
		Total Nitrogen	21,380 mg/L
		Oil and Grease	4,830 mg/L
		Tot. Vol. Solids	146,900 mg/L
		Density ^c	0.97 to 1.06 g/ml
		Ammonia	21,200 mg/L

SYMBOL	E-4	E-4	ORC	W-7-1/W-7	40-1	
SURNAME	myones	Lowell	Extinger	Hashimoto	IC	
DATE	4/25/90	4/26/90	4/26/90	Date for Bureau	4-30	
U.S. EPA CONCURRENCES				and letter	OFFICIAL FILE COPY	

4/27/90

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Fred H. Avers
 Vice President and Director
 Production Operations
 Van Camp Seafood Company, Inc.
 Boatman's Tower
 100 North Broadway, Suite 900
 St. Louis, Missouri 63102

RE: Response to Comments and Publication of Revised Draft
 Special Ocean Dumping Permit (OD 90-02) for VCS Samoa
 Packing Company, Inc.

Dear Mr. Avers:

The U.S. Environmental Protection Agency (EPA) Region 9 has prepared responses to comments received on VCS Samoa Packing Company's February 2, 1990 draft special ocean dumping permit (OD 90-02) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing waste off American Samoa. Several changes were made to the draft special permit as a result of VCS Samoa Packing Company's comments, including a request for authorization to use a new disposal vessel and an increase in the amount of fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permit were made to the following sections:

CONCURRENCES

SYMBOL	E-4	E-4	ORC	W-7-1/W-7				
SURNAME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>				
DATE	4/25/90	4/26/90	4/26/90	4/26/90				

- 1) The owner and identity of the disposal vessel were changed (page 1);
- 2) Corrections to typographical errors were made regarding the location and size of the disposal site (Special Condition 2.2);
- 3) Changes in the amount of fish processing wastes authorized for disposal were made (Special Conditions 2.3 and 2.4),
- 4) New waste stream parameter limits were calculated for each waste stream based on new data submitted by VCS Samoa Packing Company and limits for total solids were added (Special Condition 2.4.1);
- 5) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 6) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 7) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 8) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

Our tentative decision is to issue the revised draft special ocean dumping permit OD 90-02 to VCS Samoa Packing Company for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permit. The public notice enclosed with this letter will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permit. The notice of correction enclosed with this letter will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also enclosed a copy of the revised draft special permit, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

Information gathered during the term of the special permit, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal

operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

Cooperative work between EPA Regional staff, representatives of VCS Samoa Packing Company and StarKist Samoa, and expert advice from Dr. Dorothy Soule, Dr. Mickie Oguri and Dr. J.J. Lee has been productive over the many years spent in developing this permit.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures (5)

cc: Dyke Coleman, American Samoa EQC
Pati Faiai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Norman Wei, StarKist Seafoods
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Esq., Lillick & McHose
John Ciko, Esq., H.J. Heinz Co.

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: _____, 1990

EXPIRATION DATE: _____, 1993

PERMITTEE: VCS Samoa Packing Company
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: VCS Samoa Packing Company
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: VCS Samoa Packing Company
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Silk and Boyd
MV Mataora
Pago Pago, American Samoa

A special ocean dumping permit is being issued to VCS Samoa Packing Company because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. section 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. section 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

1. GENERAL CONDITIONS

1.1. Operation under this special ocean dumping permit shall conform to all applicable federal statutes and regulations including, but not limited to, the Act, the Ocean Dumping Ban Act of 1988 (PL 100-688), the Marine Plastic Pollution Research and Control Act of 1987 (PL 100-220), the Clean Water Act (33 U.S.C. section 1251 et seq.), and the Ports and Waterways Safety Act (33 U.S.C. section 1221 et seq.)

1.2. All transportation and dumping authorized herein shall be undertaken in a manner consistent with the terms and conditions of this permit. VCS Samoa Packing Company (hereafter referred to as "the permittee") shall be liable for compliance with all such terms and conditions. The permittee shall be held liable under section 105 of the Act (33 U.S.C. section 1415) in the event of any violation of the permit. During disposal operations when the permittee's wastes are combined with similar wastes from other permittees authorized to used the ocean disposal site defined in Special Condition 2.2, all companies shall be held individually liable under section 105 of the Act (33 U.S.C. section 1415) in the event of any violation of the permit.

1.3. Under section 105 of the Act, any person who violates any provision of the Act, 40 C.F.R. Parts 220 through 228 promulgated thereunder, or any term or condition of this permit shall be liable for a civil penalty of not more than \$50,000 per day for each violation. Additionally, any knowing violation of the Act, 40 C.F.R. Parts 220 through 228, or the permit may result in a criminal action being brought with penalties of not more than \$50,000 or one year in prison, or both. Violations of the Act or the terms and conditions of this permit include but are not limited to:

1.3.1. Transportation to, and dumping at any location other than that defined in Special Condition 2.2 of this permit;

1.3.2. Transportation and dumping of any material not identified in this permit, more frequently than authorized in this permit, or in excess of those quantities identified in this permit, unless specifically authorized by a written modification hereto;

1.3.3. Failure to conduct permit monitoring as required in Special Conditions 3.1, 3.3.1, 4.7 and 5.1; or

1.3.4. Failure to file waste stream and disposal site monitoring reports as required in Special Conditions 3.3, 4.7, 5.2 and 5.3.

1.4. Nothing contained herein shall be deemed to authorize, in any way, the transportation from the United States for the purpose of dumping into the ocean waters, the territorial sea, or the contiguous zone, the following materials:

1.4.1. High-level radioactive wastes;

1.4.2. Materials, in whatever form, produced for radiological, chemical, or biological warfare;

1.4.3. Persistent synthetic or natural materials which may float or remain in suspension in the ocean; or

1.4.4. Medical wastes as defined in section 3(k) of the Act.

1.4.5. Flotables, garbage, domestic trash, waste chemicals, solid waste, or any materials prohibited by the Ocean Dumping Ban Act or the Marine Plastic Pollution Research and Control Act.

1.5. Nothing contained herein shall be deemed to authorize, in any way, violation of applicable American Samoa Water Quality Standards.

1.6. After notice and opportunity for a hearing, this permit may be revised, revoked or limited, in whole or in part, subject only to the provisions of 40 C.F.R. sections 222.3(b) through 222.3(h) and 40 C.F.R. section 223.2, as a result of a determination by the Regional Administrator of EPA that:

1.6.1. The cumulative impact of the permittee's dumping activities or the aggregate impact of all dumping activities in the dump site designated in Special Condition 2.2 should be categorized as Impact Category I, as defined in 40 C.F.R. section 228.10(c)(1);

1.6.2. There has been a change in circumstances relating to the management of the disposal site designated in Special Condition 2.2;

1.6.3. The dumping authorized by the permit would violate applicable American Samoa Water Quality Standards;

1.6.4. The dumping authorized can no longer be carried out consistent with the criteria set forth in 40 C.F.R. Parts 227 and 228;

1.6.5. The permittee violated any term or condition of the permit;

1.6.6. The permittee misrepresented, or failed to accurately disclose all relevant facts in the permit application; or

1.6.7. The permittee failed to keep records, engage in monitoring and reporting activities, or to notify appropriate officials in a timely manner of the transportation and dumping activities as specified in any condition of this permit.

1.7. The permittee shall ensure at all times that facilities, including any vessels associated with the permit, are in good working order to achieve compliance with the terms and conditions of this permit. During all transportation and loading operations, there shall not be a loss of fish processing wastes to any waterway or during transport to the disposal site.

1.8. Any change in the designated waste transporter may be made, at the discretion of the Regional Administrator or his delegate, be transferred to another party, provided that a written request for such a transfer be made by the permittee at least thirty (30) days prior to the requested transfer date.

1.9. The permittee shall allow the Regional Administrator of EPA Region 9, the Commander of the Fourteenth U.S. Coast Guard District (USCG), the Director of the American Samoa Environmental Protection Agency (ASEPA), and/or their authorized representatives:

1.9.1. To enter into, upon, or through the permittee's premises, vessels, or other premises or vessels under the control of the permittee, where, or in which, a source of material to be dumped is located or in which any records are required to be kept under the terms and conditions of this permit or the Act;

1.9.2. To have access to and copy any records required to be kept under the terms and conditions of this permit or the Act;

1.9.3. To inspect any dumping equipment, navigational equipment, monitoring equipment or monitoring methods required in this permit;

1.9.4. To sample or require that a sample be drawn, under EPA, USCG, or ASEPA supervision, of any materials discharged or to be discharged; or

1.9.5. To inspect laboratory facilities, data, and quality control records required for compliance with any condition of this permit.

1.10. Material which is regulated by this permit may be disposed of, due to an emergency, to safeguard life at sea in locations or in a manner that does not comply with the terms of this permit. If this occurs, the permittee shall make a full report, in accordance with the provisions of 18 U.S.C. section 1001, within 15 days to the EPA Regional Administrator, the USCG and the ASEPA

describing the conditions of this emergency and the actions taken, including the nature and amount of material disposed.

1.11. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining State or local assent required by applicable law for the activity authorized.

1.12. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, or, except as authorized by this permit, the undertaking of any work in any navigable waters.

1.13. Unless otherwise provided for herein, all terms used in this permit shall have the meanings assigned to them by the Act or 40 C.F.R. Parts 220 through 228, issued thereunder.

2. SPECIAL CONDITIONS - DISPOSAL SITE AND WASTE CHARACTERIZATION

These conditions are required to define the length of the permit period, identify the disposal site location, describe the waste materials and define maximum permitted limits for each waste material.

2.1. Location of the Waste Generator and Duration of the Permit

2.1.1. The material to be dumped shall consist of fish processing wastes, defined in Special Conditions 2.3 and 2.4, which are materials generated at the permittee's fish cannery in Pago Pago, American Samoa.

2.1.2. This permit shall become effective at midnight _____, 1990 and it shall expire three years from the effective date at midnight on _____, 1993.

2.2. Location of Disposal Site

Disposal of fish processing wastes generated at the location defined in Special Condition 2.1.1 shall be confined to a circular area with a 1.5 nautical mile diameter, centered at 14° 24.00' South latitude by 170° 38.20' West longitude.

2.3. Description of Fish Processing Wastes

2.3.1. During the term of this permit, and in accordance with all other terms and conditions of this permit, the permittee is authorized to transport for disposal into ocean waters quantities of fish processing wastes that shall not exceed the following amounts:

Fish Processing Wastes	Amount
Dissolved Air Flotation (DAF) Sludge	31,400 gallons/day
Precooker Water	13,300 gallons/day
Press Water	12,200 gallons/day
Total Maximum Daily Volume	56,900 gallons/day

2.4. Waste Material Limitations

2.4.1. Permitted Physical and Chemical Constituents

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^{a,b}
DAF Sludge ^c	31,400 gal/day	BOD ₅ 429,470 mg/L Total Phosphorus 4,240 mg/L Total Nitrogen 14,530 mg/L Oil and Grease 280,970 mg/L Tot. Vol. Solids 313,060 mg/L Density ^d 0.85 to 1.08 g/ml Ammonia 2,670 mg/L
Precooker Water ^c	13,300 gal/day	BOD ₅ 62,060 mg/L Total Phosphorus 2,260 mg/L Total Nitrogen 22,760 mg/L Oil and Grease 263,340 mg/L Tot. Vol. Solids 344,840 mg/L Density ^d 0.96 to 1.04 g/ml Ammonia 3,120 mg/L
Press Water ^c	12,200 gal/day	BOD ₅ 500,580 mg/L Total Phosphorus 9,280 mg/L Total Nitrogen 32,900 mg/L Oil and Grease 381,760 mg/L Tot. Vol. Solids 374,350 mg/L Density ^d 0.98 to 1.07 g/ml Ammonia 4,490 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Limits for Total Solids will be calculated when enough data become available.

c = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2)

d = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

2.4.2. Permitted Maximum Concentrations for each type of waste were calculated based on an analysis of historical data from the permittee's previous research permits. The calculations followed EPA's recommended procedure for determining permit limits as defined in the EPA document titled "Guidance Document for Ocean Dumping Permit Writers" (January 30, 1988). EPA will periodically review these limits during the permit to evaluate the accuracy of the limits. If revisions are necessary, EPA will make changes according to the authority defined in the Ocean Dumping Regulations at 40 C.F.R sections 223.2 to 223.5.

2.4.3. The pH range for all fish processing wastes shall not be less than 5.5 pH units nor greater than 7.0 pH units.

2.4.4. The Permitted Maximum Concentration and pH limits, listed above, shall not be exceeded at any time during the term of this permit.

3. SPECIAL CONDITIONS - ANALYSIS OF WASTE MATERIAL

Compliance with the permitted maximum concentrations defined in Special Condition 2.4 shall be determined by monthly monitoring of each of the waste streams permitted for ocean disposal. Additional analyses of fish processing wastes and reporting requirements are defined in this section. Any sampling dates shall be scheduled within the first two weeks of the month to allow enough time for laboratory analyses and report writing to comply with Special Condition 3.3.

3.1. Analyses of Waste Material

3.1.1. Concentrations of the constituents listed in Special Condition 2.4 and those listed in the table below shall be determined for each waste stream. A sample of each waste stream shall be taken before the individual streams are mixed prior to being pumped into the disposal vessel. A sample shall consist of three replicate samples, taken on the day that sampling is scheduled, which are pooled to be used as a composite sample. The detection limits specified in the table shall be used in all waste stream analyses.

Parameters	Detection Limits
Total Solids ^a	10.0 mg/L
BOD ₅	10.0 mg/L
Total Phosphorus	1.0 mg/L
Total Nitrogen	1.0 mg/L
Oil and Grease	10.0 mg/L
pH	0.1 pH units
Total Volatile Solids	10.0 mg/L

Parameters (cont.)	Detection Limits
Density	0.01 g/mL
Ammonia	1.0 mg/L
Aluminum	0.01 mg/L
Chromium	0.01 mg/L
Nickel	0.01 mg/L
Copper	0.01 mg/L
Lead	0.01 mg/L
Cadmium	0.01 mg/L
Mercury	0.01 mg/L
Total Petroleum Hydrocarbons ^b	0.05 mg/L

a = Limits for Total Solids will be calculated when enough data are available.

b = Infrared Spectrophotometry, EPA Method 418.1

3.1.2. All waste material sampling procedures, analytical protocols, and quality control/quality assurance procedures shall be performed in accordance with guidelines specified by EPA Region 9. The following references shall be used by the permittee:

3.1.2.1. 40 C.F.R. Part 136, EPA Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

3.1.2.2. Tetra Tech, Incorporated 1985. Summary of U.S. EPA-approved Methods, Standard Methods and Other Guidance for 301(h) Monitoring Variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Incorporated, Bellevue, Wa.; and

3.1.2.3. Environmental Protection Agency. 1987. Quality Assurance and Quality Control for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-004.

3.1.3. Any waste material constituents listed in Special Condition 3.1.1 that are shown to be consistently nondetectable, may be eliminated from further analytical tests. Before elimination of the parameter is permitted, the permittee shall obtain written approval from EPA Region 9 and the ASEPA.

3.2. Analytical Laboratory

3.2.1. Within 30 days of the effective date of this permit, the name and address of the contract laboratory or laboratories and a description of all analytical test procedures and quality assurance/quality control procedures, including detection limits being used, shall be provided for EPA Region 9 approval.

3.2.2. Any potential variation or change in the designated laboratory or analytical procedures shall be reported, in writing, for EPA Region 9 approval.

3.2.3. EPA Region 9 may require analyses of quality control samples by any laboratories employed for purposes of compliance with Special Condition 3.1 and Appendix A. Upon request, the permittee shall provide EPA Region 9 with the analytical results from such samples.

3.2.4. A complete analysis of constituents, required in Special Condition 3.1, shall be made by the permittee and reported to EPA Region 9 and the ASEPA whenever there is a change in the quality of the waste, process configuration, or waste treatment. If deemed necessary by EPA Region 9, bioassays shall be required in addition to constituent analyses.

3.3. Reporting

3.3.1. The permittee shall provide EPA Region 9, ASEPA, the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS) and the Western Pacific Regional Fishery Management Council (WPRFMC) with a report, prepared every 6 months during the permit period, that contains the following information:

3.3.1.1. Daily volumes of DAF sludge, press water and precooker water removed from the permittee's facility, and loaded into the disposal vessel reported in gallons/day and tons/day;

3.3.1.2. Monthly waste stream analyses demonstrating that the waste materials being dumped comply with the permitted limits of constituents listed in Special Condition 2.4;

3.3.1.3. Monthly analyses of the additional parameters listed in Special Condition 3.1; and

3.3.1.4. The monthly amount of coagulant polymer and alum added to the waste streams reported in pounds.

3.3.2. Such reports, including a statistical analysis of parameter variability and comparison with the permit limits, shall be submitted to EPA Region 9, ASEPA, NMFS USFWS and WPRFMC within 45 days of the end of the preceding 6-month period for which they were prepared. The reports shall be submitted within this time unless extenuating circumstances are communicated to EPA Region 9 and the ASEPA in writing.

3.3.3. A summary report of all 6-month reports listed in Special Condition 3.3.1, including a statistical analyses of parameter variability, comparisons with permit limits and a detailed discussion of the summary results, shall be submitted by the permittee to EPA and the ASEPA 45 days after the permit expires.

3.3.4. Upon detection of a violation of any permit condition, the permittee shall send a written notification of this violation to EPA Region 9 and the ASEPA within five working days and a detailed written report of the violation shall be sent to the agencies within 15 working days. This notification shall pertain to any permit limits, defined in Special Condition 2.4, that are exceeded; and any disposal operation that occurs outside the disposal site defined in Special Condition 2.2.

3.3.5. One year from the effective date of this special permit, the permittee shall submit a report to EPA and ASEPA on the concentrations of heavy metals and petroleum hydrocarbons that have been measured in each of the waste streams since 1986. This report shall contain the following information:

3.3.5.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations and statistical analyses;

3.3.5.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, including quality assurance/quality control data, and measures necessary to improve the accuracy and precision of data reported to EPA and ASEPA;

3.3.5.3. Engineering analysis of the source of these heavy metals and petroleum hydrocarbons;

3.3.5.4. Proposed methods or requirements for reducing concentrations of these heavy metals and petroleum hydrocarbons in the waste streams by factors of 10%, 50% and 95%. These proposals should include plant engineering and economic analyses for each level of reduction.

3.3.5.5. EPA and ASEPA will evaluate the report to determine possible requirements for plant modification,

waste stream treatment or other special conditions to eliminate the concentrations of heavy metals and petroleum hydrocarbons in the permittee's waste streams.

3.3.6. One year from the effective date of this special permit, the permittee shall submit a report to EPA and ASEPA on the accuracy and precision of all data reported from 1980 to the present for waste stream flows and analyses of the waste streams, including DAF sludge, press water and precooker water. These data shall include test results for total solids, 5-day biological oxygen demand, total phosphorus, total nitrogen, oil and grease, pH, total volatile solids, density and ammonia, not heavy metals or petroleum hydrocarbon concentrations. This report shall contain the following information:

3.3.6.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations, regression analysis and time-series analysis;

3.3.6.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, evaluation of all laboratory quality assurance/quality control reports, and measures necessary to improve the accuracy and precision of the data reported to EPA and ASEPA; and

3.3.6.3. EPA and ASEPA will evaluate the report to determine possible requirements to improve sample or data analyses for the permittee's waste streams.

4. SPECIAL CONDITIONS - VESSEL OPERATIONS

Specifications for vessel operations are required to limit dumping activities to the dump site identified in Special Condition 2.2 and to record all dumping activities.

Fish processing wastes from the permittee's waste streams and those of other authorized permittees may be loaded into the disposal vessel together. If the waste transported to the disposal site is a combination of materials from the two plants, then the companies shall each be liable for all permit conditions regarding disposal of the wastes. If the wastes disposed at the site are only fish processing wastes generated at the permittee's plant, then the permittee shall be solely liable for all permit conditions pertaining to the disposal operation. The volume of material loaded into the disposal vessel by the permittee shall be reported as specified in Special Condition 4.7.2.3.

4.1. Posting of the Permit

This permit, or a true copy thereof, shall be placed in a conspicuous place on any vessel which will be used for the transportation and dumping authorized by this permit. If the dumping vessel is an unmanned barge, the permit or true copy of the permit shall be transferred to the towing vessel.

4.2. Vessel Identification

Every vessel engaged in the transportation of wastes for ocean disposal shall have its name and number painted in letters and numbers at least fourteen (14) inches high on both sides of the vessel. The name and number shall be kept distinctly legible always, and a vessel without such markings shall not be used to transport or dump waste material.

4.3. Determination of the Disposal Location Within the Dump Site

On each disposal trip, the master of the disposal vessel shall determine the location of the disposal operation as follows:

4.3.1. The disposal vessel, as defined under WASTE TRANSPORTER on page 1 of this permit, shall proceed directly to the center of the disposal site at the location specified in Special Condition 2.2.

4.3.2. The master of the vessel shall observe the conditions at the dump site center, noting the vessel's position (latitude and longitude), wind direction and observed surface current direction.

4.3.3. After the conditions defined in Special Condition 4.3.2 have been recorded, the master of the disposal vessel shall proceed 1.2 nautical miles upcurrent from the center of the disposal site and record the position of the disposal vessel (latitude and longitude). This position shall be the starting point for the disposal operation for the trip.

4.3.4. This procedure shall be repeated for each disposal trip.

4.3.5. The master of the disposal vessel shall prepare a navigational plot of the procedures defined in Special Conditions 4.3.1 to 4.3.3 and supply these to the permittee. The permittee shall submit these plots in the 6-month reports required under Special Condition 3.3.1. The navigational plot shall include:

4.3.5.1. The disposal vessel's course during the entire dumping operation; and

4.3.5.2. The times and location of entry and exit from the disposal site, position and time of arrival at the center of the disposal site, position and time of arrival at the location 1.2 nautical miles upcurrent from the disposal site, beginning and ending of dumping, and disposal vessel position plotted every 15 minutes while dumping.

4.3.6. The master of the disposal vessel shall sign and date each plot.

4.3.7. The master of the disposal vessel shall certify that disposal occurred in the manner required by the permit.

4.4. Disposal Rate and Vessel Speed

The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3. The disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots, while moving in a circle with a radius less than or equal to 0.2 nautical miles.

4.5. Navigational Equipment

The permittee shall employ an onboard electronic positioning system (see reference below) to fix the position of the disposal vessel accurately during all dumping operations. This system is subject to advanced approval by EPA Region 9 and the U.S. Coast Guard Liaison Office (CGLO) Pago Pago 15 days after the effective date of the permit.

Environmental Protection Agency. 1987. Evaluation of Survey Positioning Methods for Nearshore Marine and Estuarine Waters. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-003.

4.6. Permitted Times for Disposal Operations

Dumping operations shall be restricted to daylight hours, unless an emergency exists and written authorization is obtained from the CGLO Pago Pago or the ASEPA prior to departure. EPA Region 9 shall be notified no later than 15 working days after the emergency in a written report of the situation.

4.7. Reporting of the Ocean Dumping Vessel Operations

4.7.1. The waste transporter shall maintain and the permittee shall submit copies of a monthly transportation and dumping logbook, including plots of all information requested in Special Condition 4.7.2, to EPA Region 9, CGLO Pago Pago, and the ASEPA as part of the 6-month report.

4.7.2. The logbook shall contain the following information for each waste disposal trip:

4.7.2.1. Permit number, date and serial trip number;

4.7.2.2. The time that loading of the vessel commences and ceases in Pago Pago Harbor;

4.7.2.3. The volume of each waste loaded into the disposal vessel from each fish cannery;

4.7.2.4. The time and navigational position that dumping commences and ceases;

4.7.2.5. A record of vessel speed and direction every 15 minutes during each dumping operation at the disposal site, and a plot on a navigational chart of the vessel's course defined in Special Condition 4.3.5;

4.7.2.6. Observe, note and plot the time and position of any flutable material;

4.7.2.7. Observe, note and plot the wind speed and direction every 30 minutes while dumping wastes at the designated disposal site;

4.7.2.8. Observe and note current direction at the beginning and end of the disposal trip, and the direction of the waste plume at the end of the disposal operation;

4.7.2.9. Observe, note and plot the presence of the previous disposal plume and any unusual occurrences during the disposal trip, or any other information relevant to the assessment of environmental impacts as a result of dumping activities; and

4.7.2.10. Any unusual occurrences noted under Special Condition 4.7.2.9 shall be highlighted in the report defined in Special Condition 3.3.1.

5. SPECIAL CONDITIONS - DUMP SITE MONITORING

The monitoring program for disposal of wastes in the ocean must document effects of disposed wastes on the receiving waters, biota, and beneficial uses of the receiving waters; compliance with EPA's Ocean Dumping Regulations; and determine compliance with permit terms and conditions. Revisions to the monitoring program may be made under the direction of EPA Region 9 at any time during the permit term, in compliance with 40 C.F.R. sections 223.2 and 223.3. This may include a reduction or increase in the number or parameters to be monitored, the frequency of monitoring, the location of sample stations, or the

number and size of samples to be collected.

Implementation of the disposal site monitoring program and all segments of the monitoring program specified in Special Condition 5 and Appendix A shall be the responsibility of the permittee.

5.1. Monitoring Program

The permittee is required to conduct the monitoring program specified by EPA Region 9, defined in Appendix A, as a means of determining the environmental impacts of ocean dumping of the waste. If possible, monitoring cruises shall be scheduled within the first two weeks of each month to allow enough time for laboratory analysis and report writing in compliance with Special Condition 5.2. The permittee shall notify the ASEPA at least 48 hours before any scheduled monitoring activities.

5.2. Monitoring Reports

Monthly site monitoring reports shall be submitted to EPA Region 9, the ASEPA, NMFS, USFWS and WPRFMC with the 6-month reports as specified in Special Condition 3.3.2. The reports shall include: neatly compiled raw data for all sample analyses, quality assurance/quality control data, statistical analysis of sample variability between stations and within samples for each parameter, and a detailed discussion of the results.

5.3. Final Summary Report

5.3.1. A report shall be submitted to EPA Region 9, ASEPA, NMFS, USFWS and WPRFMC 60 days after the permit expires. This report shall summarize all of the data collected during the waste material and dump site monitoring programs specified in this special permit.

5.3.2. At a minimum, the summary report shall contain the following sections:

5.3.2.1. Introduction (including a summary of previous ocean disposal activities),

5.3.2.2. Location of Study Sites,

5.3.2.3. Materials and Methods,

5.3.2.4. Results and Discussion (including comparisons and contrasts with previous data related to disposal of fish processing wastes off American Samoa),

5.3.2.5. Conclusions,

5.3.2.6. References,

5.4. Quality Assurance/Quality Control

5.4.1. All appropriate phases of the monitoring, sampling, and laboratory analytical procedures shall comply with the EPA Region 9-specified protocols and references listed in Special Condition 3.1.2.

5.4.2. The qualifications of the on-site Principal Investigator in charge of the field monitoring operation at the dump site shall be submitted to EPA Region 9 and the ASEPA for approval before the initial monitoring cruise. Notification of any change in this individual shall be submitted to EPA Region 9 and ASEPA at least 7 days before the cruise is scheduled.

6. SPECIAL CONDITIONS - NOTICE TO REGULATORY AGENCIES

6.1. Notice of Sailing to U.S. Coast Guard

6.1.1. The waste transporter shall provide telephone notification of sailing to CGLO Pago Pago at 633-2299 and the ASEPA at 633-2304 during working hours (7:00 a.m. to 3:30 p.m.) no later than 24 hours prior to the estimated time of departure for the dump site defined in Special Condition 2.2.

6.1.2. The waste transporter shall immediately notify CGLO Pago Pago and the ASEPA upon any changes in the estimated time of departure greater than two hours.

6.1.3. Surveillance of activities at the dump site designated in Special Condition 2.2, may be accomplished by unannounced aerial overflights, a USCG shiprider and/or a ASEPA shiprider who will be on board the towing/conveyance vessel for the entire voyage. Within two hours after receipt of the initial notification the waste transporter will be advised whether or not a shiprider will be assigned to the waste transporter's disposal vessel.

6.1.4. The following information shall be provided to CGLO Pago Pago or the ASEPA in the notification of sailing defined above:

6.1.4.1. The time of departure,

6.1.4.2. Estimated time of arrival at the dump site,

6.1.4.3. Estimated time of departure from the dump site, and

6.1.4.4. Estimated time of return to port.

6.2. Reports and Correspondence

6.2.1. Two copies of all reports and related correspondence required by General Condition 1.9, Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4, and all other materials, including applications shall be submitted to EPA Region 9 at the following address:

Office of Pacific Island and Native American Programs
(E-4)
U.S. Environmental Protection Agency, Region 9
215 Fremont Street
San Francisco, California 94105
Telephone (415) 744-1772

6.2.2. Two copies of all reports required by General Condition 1.9 and Special Conditions 4.7 and 6.1 sent to the U.S. Coast Guard shall be submitted to the following address:

Commanding Officer
U.S. Coast Guard Liaison Office
P.O. Box 249
Pago Pago, American Samoa 96799
Telephone (684) 633-2299

6.2.3. Three copies of all reports required by General Condition 1.9 and Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4 and 6.1 sent to the American Samoa Environmental Protection agency shall be submitted to the following address:

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799
Telephone (684) 633-2304

6.2.4. One copy of the all reports required by Special Conditions 3.3.2, 3.3.3, 5.2 and 5.3 shall be sent to the USFWS, the NMFS and the WPRFMC at the following addresses:

Project Leader
Office of Environmental Services
U.S. Fish and Wildlife Service
300 Ala Moana Boulevard
P.O. Box 50167
Honolulu, Hawaii 96850

Western Pacific Program Officer
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Executive Director
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1405
Honolulu, Hawaii 96813

Signed this _____ day of _____, 1990

For the Regional Administrator:

Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9

APPENDIX A

SPECIAL OCEAN DUMPING PERMIT OD 90-01 OCEAN DUMP SITE MONITORING PLAN

7. MONITORING OF RECEIVING WATER

Monitoring of the receiving waters at the disposal site defined in Special Condition 2.2 shall be the responsibility of the permittee. Funding and cooperation for site monitoring may be accomplished through an agreement between permittee and other permittees authorized to use the disposal site. Any agreements negotiated between the permittee and other authorized permittees shall be the sole responsibility of the permittee named in this permit. EPA Region 9 requires that a monitoring program be developed that complies with the conditions defined below.

During each monitoring cruise, the waste plume from the disposal vessel shall be sampled by taking discrete water samples for the measurement of parameters listed in Sections 7.2.4. Results of the first 6-month monitoring report will be evaluated by EPA Region 9 to determine whether portions of Sections 7 and/or 8 will be revised. The evaluation will be based on documented sampling results and recommendations by the permittee(s).

7.1. Location of Water Sampling Stations

7.1.1. On each sampling cruise, the latitude and longitude of all sampling stations shall be determined using appropriate navigational equipment.

7.1.2. The Principal Investigator shall ensure that discrete water samples are taken at the locations marked in Figure 1.

7.1.3. The Principal Investigator shall ensure that each sampling station is positioned as close as possible to the middle of the discharge plume according to his best professional judgment.

7.1.4. The following stations shall be sampled on each sampling cruise (see Figure 1):

7.1.4.1. Station 1 shall be the center of the dumping operation as determined in Special Condition 4.3,

7.1.4.2. Station 2 shall be 0.25 nautical miles (nm) down-current from Station 1.

7.1.4.3. Station 3 shall be 0.5 nm down-current from Station 1.

a = samples should be acidified to pH <2 with sulfuric acid and refrigerated at 4°C until analysis.

7.2.5. If waste stream analyses, described in Special Condition 3.1, identify significantly high levels of constituents that may adversely affect marine water quality, EPA Region 9 may require that those constituents be added to the list of water column parameters in 7.2.4 above.

7.3. Frequency of Sampling

7.3.1. Water samples shall be collected when dumping operations occur. Each station listed under Section 7.1 shall be sampled once each month. These samples shall be used to characterize the receiving waters at the disposal site.

7.3.2. Control samples shall be taken at Station 1 prior to dumping activities.

7.3.3. Station 1 shall be sampled at a point within the plume immediately after discharge operations cease.

7.3.4. Stations 2 through 5 shall be sampled consecutively at distances indicated in Section 7.1.4 to allow efficient sampling of the discharge plume. The time between each sample and the sampling location, beginning with the control sample and ending with the sample collected at the leading edge of the plume, shall be recorded.

7.4. Water Quality Criteria and Standards

7.4.1. The limited permissible concentration (LPC) of the liquid phase of the waste material shall not be exceeded at the disposal site boundary four hours after disposal operations cease. The LPC is that concentration of the material which, after allowance for initial mixing as defined at 40 C.F.R. section 227.29, does not exceed applicable American Samoa Oceanic Water Quality Standards. EPA Region 9 and the ASEPA will evaluate the LPC based on EPA's Ocean Dumping Regulations and the water quality values obtained for the stations sampled during the tenure of this permit.

7.4.2. The following standards apply to American Samoa oceanic water:

Parameter	Median not to exceed given value
Turbidity (NTU)	0.20
Total Phosphorus (ug P/L)	11.00

Parameter (cont.)	Median not to exceed given value
Total Nitrogen (ug N/L)	115.00
Chlorophyll <u>a</u> (ug/L)	0.18
Light Penetration Depth (feet)	150*
Dissolved Oxygen (DO)	Not less than 80% of saturation or less than 5.5 mg/L. If the natural level of DO is less than 5.5 mg/L, then the natural DO shall become the standard.
pH	The range shall be 6.5 to 8.6 pH units and within 0.2 pH units of that which would occur naturally.

*To exceed the given value 50% of the time.

8. MONITORING OF BIOLOGICAL COMMUNITIES

8.1. Pelagic Resources

8.1.1. All sightings of fish, sea turtles, sea birds, or cetaceans near the disposal site shall be recorded including:

8.1.1.1. Time, location and bearing;

8.1.1.2. Species name(s); and

8.1.1.3. Approximate number of individuals.

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: _____, 1990

EXPIRATION DATE: _____, 1993

PERMITTEE: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Pago Marine, Inc.
MV ASTRO
Pago Pago, American Samoa

A special ocean dumping permit is being issued to VCS Samoa Packing Company because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. § 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. § 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

SYMBOL	E-4	E-4	ORC	W-7-1/W-7	W-1	
SURNAME	<i>Vigors</i>	<i>hardy</i>	<i>Endicott</i>	<i>for Baracenia</i>	<i>JC</i>	
DATE	<i>4/25/90</i>	<i>4/26/90</i>	<i>4/26/90</i>	<i>and Cotten</i>	<i>5-1</i>	
U.S. EPA CONCURRENCES					OFFICIAL FILE COPY	

4/27/90

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: _____, 1990

EXPIRATION DATE: _____, 1993

PERMITTEE: Samoa Packing Company, Incorporated
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: Samoa Packing Company, Incorporated
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: Samoa Packing Company, Incorporated
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Silk and Boyd
MV Mataora
Pago Pago, American Samoa

A special ocean dumping permit is being issued to Samoa Packing Company, Incorporated because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. section 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. section 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

SYMBOL	W-7-1	E-4	W-7-1	W-7	W-7
SURNAME	Allen	Myers	Hashimoto	for Barsamian	1-19
DATE	12/20/89	1/2/89	1/10/90	1/12/90	1-19

U.S. EPA CONCURRENCES

OFFICIAL FILE COPY

ENVIRONMENTAL PROTECTION AGENCY

40 C.F.R. Part 228

Ocean Dumping; Designation of Site

AGENCY: Environmental Protection Agency (EPA), Region IX

ACTION: Final Rule.

SUMMARY: EPA Region IX today designates an ocean disposal site located southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes. The center of the site is 5.45 nautical miles from land (14° 24.00' South latitude by 170° 38.20' West longitude), located in 1,502 fathoms of water, with a radius of 1.5 nautical miles. The fish processing wastes are generated by Star-Kist Samoa, Incorporated and VCS Samoa Packing Company located in Pago Pago. These are subsidiaries of Star-Kist Foods, Incorporated and Van Camp Seafood Company, Incorporated, respectively.

This action is necessary to provide an acceptable ocean dumping site for the disposal of fish processing wastes from American Samoa canneries (the "canneries"). This final site designation is for an indefinite time. The site is subject to periodic monitoring to insure that unacceptable adverse environmental impacts do not occur. If EPA Region IX determines that unacceptable environmental impacts are occurring at the site, the Regional Administrator may take appropriate action under his authority defined at 40 C.F.R. section 228.11. Upon final designation, all other sites previously designated, including the interim Fish Cannery Wastes Site--Region IX listed at 40 C.F.R. section 228.12(a)(3), shall be cancelled.

DATE: This designation shall become effective when three-year special permits for Star-Kist Samoa, Inc. and VCS Samoa Packing Company are issued.

ADDRESSES: Send comments to: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 215 Fremont Street, San Francisco, California 94105. The file supporting this designation and the letters of comment are available for public inspection at the following locations:

1. EPA Public Information Reference Unit (PIRU), Room 2904 (rear), 401 M Street, S.W., Washington, D.C.
2. EPA Region IX, 211 Main Street, San Francisco, California
Call (415) 744-2180 to make special arrangements.
3. EPA Pacific Islands Coordination Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii.
4. American Samoa Environmental Quality Commission, Pago Pago, American Samoa.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter at the above address, or by telephone at (415) 744-1640.

SUPPLEMENTARY INFORMATION

A. Background

Section 102(c) of the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972, as amended, 33 U.S.C. sections 1401 et seq., gives the Administrator of EPA the authority to designate sites where ocean dumping may be permitted. On December 23, 1986, EPA's Administrator delegated the authority to designate ocean disposal sites for fish processing wastes to EPA Regional Administrators. This site designation is being made

according to that authority.

The EPA Ocean Dumping Regulations (40 C.F.R. Chapter 1, Subchapter H, section 228.4) state that ocean dumping sites will be designated by publication in Part 228. A list of "Approved Interim and Final Ocean Dumping Sites" was published on January 11, 1977 (42 Fed. Reg. 2462 et seq.). A fish cannery waste disposal site was designated for American Samoa on November 24, 1980 (45 Fed. Reg. 77435). This site designation was restricted to a three-year period which ended on November 24, 1983. Before the site authorization expired, EPA Region IX issued a letter on August 8, 1983 authorizing the canneries to dispose of the fish processing wastes at the site until a suitable site designation environmental impact statement was prepared by the Agency. After the effective date of this final rule for the fish processing waste disposal site, the Fish Cannery Wastes Site--Region IX listed at 40 C.F.R. section 228.12(a)(3) and any other sites shall be cancelled.

A series of MPRSA section 102 research permits (OD 86-01, OD 87-01, OD 88-01 and OD 88-02) were issued to the canneries. The special conditions and monitoring requirements in these permits have been used to characterize the current disposal site (900-fathom site) during actual disposal operations. Research permits were issued because EPA Region IX determined there was a need to collect scientific information about the impact of this fish processing waste disposal in the environment near American Samoa. Results of the site monitoring program revealed that unacceptable environmental impacts did not occur at the

designated ocean disposal site.

On November 18, 1988, the Ocean Dumping Ban Act (ODBA) of 1988 (PL 100-688) was signed. The ODBA excludes waste from the tuna canneries in American Samoa, amended MPRSA section 104B(k)(3)(B), from the prohibition of ocean dumping of industrial wastes after December 31, 1991. EPA administratively extended Research Permit OD 88-02 on March 3, 1989. This was necessary because ODBA banned the use of research permits. The final designation of this ocean dumping site is intended to provide an acceptable location for disposing of fish cannery wastes in the most environmentally sound manner.

Interested persons may participate in this final rulemaking by submitting written comments within 30 days of the date of this publication to the address given above.

B. EIS Development

Section 102(c) of the National Environmental Policy Act of 1969, 42 U.S.C. sections 4321 et seq., (NEPA) requires that federal agencies prepare environmental impact statements (EIS) on proposals for major Federal actions significantly affecting the quality of the human environment. The object of NEPA is to build into agency decision-making processes careful consideration of all environmental aspects of proposed actions. While NEPA does not apply to EPA activities of this type, EPA has voluntarily committed to prepare EISs in connection with ocean dumping site designations (39 Fed. Reg. 16186, May 7, 1974; as amended by 39 Fed. Reg. 37419, October 24, 1974).

EPA Region IX prepared a Draft EIS entitled "The Designation

of an Ocean Disposal Site off Tutuila Island, American Samoa for Fish Processing Wastes." A notice of availability of the DEIS for public review and comment was published in the Federal Register (53 Fed. Reg. 38118, September 16, 1988). The public comment period on this DEIS closed on October 31, 1988 after receipt of 11 comment letters. Notification of a Proposed Rule (54 Fed. Reg. 7207, February 17, 1989) and a Final EIS (54 Fed. Reg. 9083, March 3, 1989) were published in the Federal Register. The public comment period for these documents closed on April 3, 1989. EPA Region IX received 6 comment letters during the comment period and 1 comment letter after the close of the comment period.

In addition to the Coastal Zone Management Act coordination discussed below, EPA Region IX has also coordinated with the appropriate agencies on the Endangered Species Act and the National Historic Preservation Act. The agencies responsible for these two programs determined that the site designation would not affect either program. The following substantive comments were discussed in the 7 comment letters:

Comment 1: The American Samoa Economic Development Planning Office requested that EPA obtain a consistency determination from the applicant before the issuance of any permit.

Response 1: The applicant, Star-Kist Foods, requested a coastal consistency determination under section 307(c) of the Coastal Zone Management Act from the American Samoa Economic Planning Office. In a letter dated June 2, 1989, Star-Kist Foods provided a copy of the American Samoa Government's letter (May 8, 1989)

certifying that the proposed site designation complied with the approved American Samoa Coastal Zone Management Program.

Comment 2: The EPA, the American Samoa Environmental Protection Agency and the U.S. Coast Guard must ensure that the fish wastes are disposed in the designated area through effective surveillance and a frequent monitoring program.

Response 2: To ensure protection of sensitive marine ecosystems and human health, EPA Region IX has taken the most conservative approach to designation of an appropriate site and selected a site 5.45 nautical miles offshore. The center of the 1,500-fathom site is about 2.75 nautical miles farther offshore than the current 900-fathom site. The special ocean dumping permit that will be issued to each applicant contains restrictions on the disposal site operations and strict reporting requirements. There are also provisions for shipriders to accompany the disposal vessel. Surveillance will be conducted by the U.S. Coast Guard (USCG) and the American Samoa Environmental Protection Agency (ASEPA), when agency personnel are available.

The monitoring program for the permit is contained in the special conditions of the ocean dumping permit. This level of monitoring is required by EPA to allow the regulatory agencies to determine whether unacceptable environmental impacts are occurring as a result of disposal operations at the designated site. Disposal of the wastes, as defined in the special ocean dumping permit, will insure that the disposed fish wastes do not exceed the limiting permissible concentration at the boundary of the disposal site. The disposal vessel captain will be required

to note the presence or absence of the previous disposal plume if a second trip is made to the disposal site on the same day. However, this will be accomplished during the vessel's direct transit to the disposal site; the vessel will not be required to search for the plume.

The special permit will have monthly monitoring requirements for the wastes streams from the permittees' processing facilities. A detailed report discussing the results of monitoring conducted pursuant to the previously issued research permits will be required. In addition to the agencies already receiving copies of the permittees' monitoring reports, the Western Pacific Regional Fishery Management Council will also receive a copy.

Comment 3: Disposal of fish wastes at sea are responsible for attracting sharks into Pago Pago Harbor.

Response 3: Fish wastes permitted under the Ocean Dumping Act have been disposed at a site at least 5 nautical miles south of the mouth of Pago Pago Harbor. It is unlikely that shark activity in Pago Pago Harbor can be attributed to disposal of fish wastes at such a distance from the main harbor.

Comment 4: Consider other alternatives to ocean disposal.

Response 4: EPA Region IX has selected the 1,500-fathom site as the preferred alternative because other land based disposal alternatives did not make the most efficient use of American Samoa's limited resources and the impact on human health from land disposal was considered to be too great compared to ocean disposal. When ODBA was signed in November 1988, the canneries

in American Samoa were excluded from the ban on disposal of industrial waste in the ocean if EPA approved ocean disposal.

C. FEIS Alternatives Analysis

The action discussed in the FEIS is designation of an acceptable fish processing waste disposal site for continued use. The purpose of the designation is to provide an environmentally acceptable location for ocean disposal as specified in 40 C.F.R. Part 228 of EPA's Ocean Dumping Regulations. Use of the site will be regulated through the issuance of MPRSA section 102 special permits in compliance with the criteria defined in 40 C.F.R. Part 227. Each special permit will last for a maximum of 3 years. EPA Region IX and the American Samoa Environmental Protection Agency will evaluate permit data to determine whether disposal can continue at the site.

Application for each permit will be evaluated individually to determine whether the permittees have provided adequate information to characterize the waste. All monitoring data will be reviewed to determine whether any environmental impacts have occurred as a result of disposal of fish processing wastes at the designated site. If EPA Region IX determines that significant unacceptable impacts have occurred at the site, then the Regional Administrator will re-evaluate the use of the site.

The FEIS discusses the need for the action and examines ocean disposal sites and alternatives to the proposed action. The following alternatives were evaluated in this FEIS:

1. **No Action** - This alternative would prohibit ocean disposal of fish processing wastes. No action would force the canneries to

consider one of the following alternatives: 1) discharge of the wastes into Pago Pago Harbor, or 2) disposal on land. The options listed for the No Action alternative were determined to be unacceptable solutions because environmental risks were unacceptable and land disposal has been banned by the American Samoa Government.

2. Other Technological Alternatives - These alternatives include: centrifuging, belt presses, vacuum filter presses, anaerobic treatment and digestion, production of animal feed, oil recovery, incineration, pulse jet drying, ultrafiltration, and composting. All of these alternatives were examined in the DEIS and found to be unacceptable for disposal of fish processing wastes because they were technically infeasible given the amount of wastes and the land space required for such alternatives.

3. Current Disposal Site (900-fathom site) - This site has been used for ocean disposal of fish processing wastes since a research ocean dumping permit (OD 86-01) was issued in 1987. The center of the site was located 2.25 nautical miles from land ($14^{\circ} 22.18'$ South latitude by $170^{\circ} 40.87'$ West longitude) in 910 fathoms of water. This site has been monitored extensively for two years, during 4 research permits. This site was determined unsuitable because projected increases in waste disposal require a larger site and one that is farther from shore to prevent impacts to nearshore ecosystems.

4. Shallow Water Site - This site is located 2.3 nautical miles seaward of the entrance to Pago Pago Harbor ($14^{\circ} 20.00'$ South latitude by $170^{\circ} 39.30'$ West longitude) in 120 fathoms of water.

The site is very close to the Taema Bank fishing area. It is not considered as a viable alternative for ocean disposal of fish processing wastes because there may be potentially significant impacts to fishing on the bank.

5. **Deeper Water Site (1,500-fathom site)** - The center of the deeper water site defined in the DEIS was moved 0.5 nautical miles farther offshore in the FEIS. Water depth at the center of the site is 1,502 fathoms. This proposal was made by EPA Region IX as a result of comments received on the DEIS and to eliminate potential impacts to nearshore ecosystems. The center of the 1,500-fathom site in the FEIS ($14^{\circ} 24.00'$ South latitude by $170^{\circ} 38.20'$ West longitude) is located about 5.45 nautical miles from land. Major considerations include: the area of the disposal site, containment of the dumping plume within the site given the initial mixing calculations, the proximity of the site to American Samoa territorial waters, the feasibility of monitoring and surveillance, and other specific criteria defined at 40 C.F.R. section 228.6(a).

The FEIS presents the information needed to evaluate the suitability of ocean disposal alternatives for final designation which is based on site monitoring studies. The site monitoring studies, waste stream monitoring and final designation are being conducted under MPRSA, the Ocean Dumping Regulations, and other applicable Federal environmental legislation.

This final rulemaking notice fills the same role as the Record of Decision required under regulations promulgated by the Council on Environmental Quality for agencies subject to NEPA.

D. Site Designation

The site designated today by EPA Region IX is the same site selected as the preferred alternative in the February 17, 1989 Federal Register notice. The 1,500-fathom site, located about 5.45 nautical miles offshore. The site occupies an area of about 7.07 square nautical miles. Water depths within the area are approximately 1,502 fathoms (2,746 meters). The coordinates of the site are as follows: 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. If at any time during the monitoring program required by the MPRSA section 102 special permit, EPA Region IX determines that disposal operations at the site are causing unacceptable adverse impacts, further use of the site will be restricted or ended. EPA anticipates that use of the site will not cause significant unacceptable environmental impacts as a result of disposal of fish processing wastes. The environmental impact of the disposal operations will be evaluated on a quarterly basis when the permit monitoring data is provided to EPA Region IX.

E. Regulatory Requirements

Selection and approval of ocean disposal sites for continuing use is evaluated first for compliance with 5 general site selection criteria. A site is selected to minimize interference with other marine activities, to keep any temporary dumping perturbations from causing impacts outside the disposal site, and to permit effective monitoring for detection of any adverse impacts at an early stage. Where feasible, locations off the continental shelf and sites with historical use are chosen.

If disposal operations at a site cause unacceptable adverse impacts, the use of that site will be ended as soon as a suitable alternate disposal site can be designated. The 5 general criteria are given in section 228.5 of the EPA Ocean Dumping Regulations, and section 228.6(a) lists 11 specific factors used in evaluating a disposal site to assure that the general criteria are met.

EPA has determined that the site meets the 5 general ocean dumping criteria. Historical use of the 900-fathom site has not resulted in substantially adverse effects to living resources of the ocean or to other uses of the marine environment. The 1,500-fathom site is expected to have similar effects on marine resources about 2.75 nautical miles southeast of the 900-fathom site.

The characteristics of the 1,500-fathom site are reviewed below for compliance with the 11 specific ocean dumping criteria.

1. **Geographical position, depth of water, bottom topography and distance from the coast, 40 C.F.R. section 228.6(a)(1).** The 1,500-fathom site is located about 5.45 nautical miles (9.2 kilometers) from shore at a depth of approximately 1,502 fathoms (2,746 meters). The bottom topography of the dump site slopes sharply from 1,200 fathoms in the northwest quadrant to depths more than 1,502 fathoms (NOAA, Chart 83434). Since the fish processing waste disposal plume is buoyant, no sediment samples have been taken because benthic impacts are not expected at the site.

2. **Location in relation to breeding, spawning, nursery, feeding,**

or passage areas of living resources in adult or juvenile phases, 40 C.F.R. section 228.6(a)(2). There are no known breeding, spawning or nursery uses of the 1,500-fathom site. The species in the vicinity of the site are pelagic fish species that are harvested commercially, and species of marine birds and cetaceans that are seen infrequently near the site.

3. Location in relation to beaches and other amenity areas, 40 C.F.R. section 228.6(a)(3). The 1,500-fathom site is 5.45 nautical miles from the nearest shoreline. EPA Region IX has determined that visual impacts of plumes, transport of dredged material to any shoreline and alteration of any habitat of special biological significance or marine sanctuary will not occur if this site is designated.

Comments received on the DEIS say that the plume from the 900-fathom site may have moved close to shore on rare occasions. These reports included sightings and detection of odors associated with the waste. As a result of these reports, EPA Region IX has moved the center of the disposal site farther offshore and increased the radius of the site to contain the plume as shown by mathematical model runs in the FEIS.

The special permits that will be issued for the site will require that the disposal vessel captain conduct all disposal operations in the upcurrent quadrant of the site. This will reduce the possibility of the discharge plume moving into sensitive marine habitats or near the shore.

4. Types and quantities of wastes proposed to be disposed of, and proposed methods of release, including methods of packing the

waste if any, 40 C.F.R. section 228.6(a)(4). Actual disposal of DAF sludge has been about 48,000 gallons per day. The average monthly disposal of authorized wastes from both canneries has been about 860,000 gallons since the research permits were issued in 1987. The canneries propose to dispose of the following fish processing wastes at the disposal site: 200,000 gallons/day of dissolved air flotation (DAF) sludge, 56,900 gallons/day of precooker water, and 256,900 gallons/day of presswater. These amounts are proposed for disposal on a daily basis in the event that delays in daily disposal operations occur. If delays in disposal occur, the wastes will be stored until conditions for disposal are acceptable. At that time it is possible that additional disposal trips will be scheduled to empty the storage tanks. Future disposal operations may increase if precooker water and press water must be dumped at sea after National Pollutant Discharge Elimination System (NPDES) permits impose stricter limits on waste discharges in Pago Pago Harbor.

The wastes will be transported via a dumping vessel with 24,000 gallon tanks. After modifications, the vessel could carry up to 100,000 gallons of waste per trip for disposal at the site. The disposal of the wastes will occur at a location 1.2 nautical miles upcurrent from the center of the site at a rate of 140 gallons per minute per knot, not to exceed 1400 gallons per minute at a maximum speed of 10 knots within a 0.2 nautical mile circle.

5. Feasibility of surveillance and monitoring, 40 C.F.R. section 228.6(a)(5). The EPA, the USCG and the ASEPA may conduct spot

surveillance of disposal activities at the site, and they may inspect the disposal vessel for compliance with USCG regulations and the permits. EPA Region IX and ASEPA will assist the USCG within the limits of their jurisdiction.

Waste stream and plume monitoring will be key factors in the site monitoring program. The monitoring program will be established to answer several questions including: composition of wastes disposed at the site during the term of the permit, the area affected by the disposal plume, movement of the disposal plume toward land and areas of special biological significance, disposal model verification, and potential impacts on commercial and recreational fisheries. If significantly adverse impacts are detected at the site, the site management plan will be flexible enough to allow for appropriate action.

6. Dispersal, horizontal transport and vertical mixing characteristics of the area, including prevailing current direction and velocity, if any, 40 C.F.R. section 228.6(a)(6).

Water currents in the vicinity of the 1,500-fathom site are variable but move parallel to shore in a west-southwest direction. Surface current speeds average between 0.16 and 0.67 knots. During storm events, greater surface current speeds occur. Vertical mixing to a depth of approximately 20 meters has been documented at the disposal site; however, the surface waters off American Samoa are strongly stratified and deeper mixing is not expected below the permanent thermocline.

The prevailing winds, oceanic currents, shoaling effects of the reefs and the configuration of the island contribute to a

persistent longshore current between Pago Pago Harbor and the southeastern point of the island. This current minimizes the possibility of the waste plume affecting nearshore reef areas. To further reduce the possibility of nearshore impacts, EPA Region IX has selected the 1,500-fathom site which is 5.45 nautical miles from shore.

7. **Existence and effects of current and previous discharges and dumping in the area (including cumulative effects), 40 C.F.R. section 228.6(a)(7).** Disposal of fish processing wastes has been permitted at two locations near the 1,500-fathom site since September 1980. An average of about 860,000 gallons per month has been discharged at these sites since the first research permit was issued. Detailed field monitoring at the 900-fathom site, under 4 research permits, has not shown any unacceptable or cumulative environmental impacts since February 1987. Impacts on the water column during disposal operations are considered to be minimal and temporary. The potential for cumulative effects, also considered to be minimal at the 1,500-fathom site, will be assessed in the monitoring program as a major requirement of the MPRSA section 102 special permits.

8. **Interference with shipping, fishing, recreation, mineral extraction, desalination, fish and shellfish culture, areas of special scientific importance and other legitimate uses of the ocean, 40 C.F.R. section 228.6(a)(8).** Interference with shipping and fishing is minimal because vessel traffic in the vicinity of the disposal site is extremely low. To minimize effects on nearshore habitats and fish aggregation devices placed near the

island, EPA Region IX has selected the 1,500-fathom site as the preferred alternative. There are no other uses of the ocean that could be affected by disposal of wastes at the 1,500-fathom site.

9. The existing water quality and ecology of the site as determined by available data or by trend assessment or baseline surveys, 40 C.F.R. section 228.6(a)(9). The oceanic water quality is considered to be excellent with regard to the concentration of nutrients and other compounds at the 1,500-fathom site. The size of the site has been enlarged to a radius of 1.5 nautical miles to contain any discharge plume within the boundaries. Water quality outside the site boundary is not expected to be affected by disposal of fish processing wastes.

The community of pelagic invertebrates in the vicinity of the 1,500-fathom site is dominated by large cephalopod mollusks of the genus Nautilus. Recent studies have shown that they may be food for large carnivores. Impacts on these highly motile invertebrates are expected to be very small.

Pelagic fish caught in the vicinity of the 1,500-fathom site include skipjack (Katsuwonus pelamis) and yellowfin tuna (Thunnus albacares) which are fished commercially throughout the tropical South Pacific Ocean. Other important sport and commercial fish species are marlin (Makaira spp.), sailfish (Istiophorus platyperus), dolphin fish (Coryphaena spp.), wahoo (Acanthocyprium solandri) and kawakawa (Euthynnus affinis). These species are migratory and they avoid areas of turbid water. No impacts are expected on these fish species. No impacts are expected on

coastal birds, cetaceans or any endangered species in the vicinity of the 1,500-fathom site.

10. Potentiality for the development or recruitment of nuisance species in the disposal site, 40 C.F.R. section 228.6(a)(10).

Recruitment of nuisance species, such as sharks, in the vicinity of the disposal site is not expected. Sharks have been observed near the fish attractant device south of the island and in Pago Pago Harbor feeding on small fish. If a school of small prey fish were attracted to the waste plume, the sharks may pursue them. However, disposal of fish processing wastes at the current site has not caused an increase in the offshore shark population.

11. Existence at or in close proximity to the site of any significant natural or cultural feature of historical importance, 40 C.F.R. section 228.6(a)(11). There are no known shipwrecks or any known aboriginal artifacts in the vicinity of the 1,500-fathom site.

F. Action

EPA Region IX has concluded that the 1,500-fathom site, evaluated in the FEIS, may be designated for continued use. The 1,500-fathom site is compatible with the 5 general criteria and 11 specific criteria used by EPA for site evaluation.

Designation of the 1,500-fathom site as an approved EPA Ocean Dumping Site is being published as final rulemaking. Management of this site will be the responsibility of the Regional Administrator of EPA Region IX. The monitoring program, required as part of the MPRSA section 102 special permits, will be conducted by the permittees.

Designation of an ocean dumping site by EPA Region 9 does not constitute or imply EPA Region IX's approval of actual ocean disposal of materials. Before ocean dumping of fish processing waste begins, EPA Region IX must evaluate each permit application according to the ocean dumping criteria. EPA Region IX has the right to disapprove the actual dumping, if environmental concerns under MPRSA have not been met.

G. Regulatory Assessments

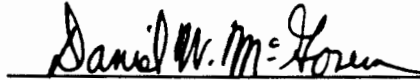
Under the Regulatory Flexibility Act, EPA is required to perform a Regulatory Flexibility Analysis for all rules which may have a significant impact on a substantial number of small entities. EPA has determined that this action will not have a significant impact on small entities since the site designation will only have the effect of providing a disposal site for fish processing wastes generated in Pago Pago, American Samoa. This action will not result in an annual effect on the economy of \$100 million or more or cause any of the other effects which would result in its being classified by the Executive Order as a major rule. Therefore, this proposed rule does not necessitate preparation of a Regulatory Impact Analysis.

This Final Rule does not contain any requirements to collect information that are subject to Office of Management and Budget review under the Paperwork Reduction Act of 1980, 44 U.S.C. sections 3501 et seq.

List of Subjects in 40 C.F.R. Part 228

Water Pollution Control.

Dated: 1.25.90



Daniel W. McGovern

Regional Administrator for Region IX

In consideration of the foregoing, Subchapter H of Chapter 1 of Title 40 is amended as set forth below.

Part 228 - [Amended]

1. The authority citation for Part 228 continues to read as follows:

Authority: 33 U.S.C. sections 1412 and 1418

2. Section 228.12 is amended by adding the following paragraph, which will be numbered consecutively in 40 C.F.R. section 228.12(b), to read as follows:

Section 228.12 Delegation of management authority for ocean dumping sites.

* * * * *

(b) * * *

() American Samoa Fish Processing Waste Disposal Site
American Samoa Fish Processing Waste Disposal
Site-Region IX.

Location: 14° 24.00' South latitude by 170° 38.20'
West longitude (1.5 nautical mile radius).

Size: 7.07 square nautical miles.

Depth: 1,502 fathoms (2,746 meters or 9,012 feet).

Primary Use: Disposal of fish processing wastes.

Period of Use: Continued use.

Restrictions: Disposal shall be limited to dissolved
air flotation (DAF) sludge, presswater, and
precooker water produced as a result of fish
processing operations at fish canneries generated
in American Samoa.

LILICK & MCHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

IRA S. LILICK (1976-1987)

CABLES "LILICKMCHOSE"
INTERNATIONAL TELEX-559755
TELECOPIER (619) 236-1005

DIRECT DIAL NO.

Date: July 3, 1990**FACSIMILE TRANSMITTAL**

TO: _____

FROM: Thomas REDICK USER NUMBER: 8156FAX NUMBER: (415) 705-2114

MAIN NUMBER: _____

FILE NUMBER: (Client Matter) VAN09.017Number of pages, including cover sheet 3

Our facsimile number is : (619) 236-1995

IF YOU HAVE NOT PROPERLY RECEIVED THIS FACSIMILE,
PLEASE CALL US AT (619) 234-5000

Thank You.

SPECIAL INSTRUCTIONS:_____

Operator: _____

Time Sent: _____

LILLICK & McHOSE

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000IRA S. LILLICK (875-1957)
CABLES "LILLICKMCHOSE"
INTERNATIONAL TELEX-559755
TELECOPIER (619) 236-1995725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

July 3, 1990

VIA FACSIMILEMr. Patrick Cotter
USEPA Region IX
Code W-7-1
1235 Mission Street
San Francisco, CA 94103Re: Special Ocean Dumping Permit 90-02
VCS Samoa Packing Company, Inc.
Our File No. VAN09-017

Dear Patrick:

Following our telephone conference call last week with Ann Nutt, I spoke with the engineering staff for VCS Samoa Packing Company, Inc. regarding the EPA's desire to publish the referenced permit with an effective date of July 31, 1990. After giving the various possible scenarios considerable thought, we decided that VCS Samoa Packing Company could live with an effective date of July 31, 1990, provided that the EPA is willing to issue a vessel change designation on an expedited basis as necessary.

In our telephone conversation, you had indicated that a change in vessel designation could be done by a notification letter to you. This could be done on an emergency basis to allow a vessel change to take place without the 30 day written notice required by Paragraph 1.8 of the permit. In the event that anyone at EPA would require 30 days' written notice, please consider this letter to be such notice.

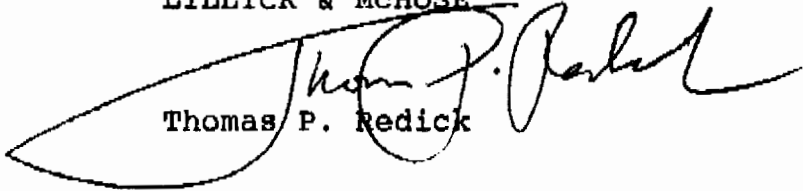
This should give VCS the flexibility it may require to conduct test runs with the M.V. Astro to ensure that it is operational prior to August 1, 1990. By the same token, it would allow the MATAORA to be substituted under the referenced ocean dumping permit after August 1, 1990, if the M.V. ASTRO cannot be

Mr. Patrick Cotter
July 3, 1990
Page 2

While we are optimistic at the prospects of successfully barging as of August 1, 1990, we appreciate EPA's cooperation in minimizing unnecessary administrative barriers to implementing an effective barging operation. Your courtesy and cooperation on this matter are greatly appreciated.

Very truly yours,

LILLICK & McHOSE



Thomas P. Redick

TPR:rm

cc: James McCafferty
James Cox
Gordon Stirling
John Ciko
Norman Wei
Maurice Callaghan
Ann Nutt

{151:LTR0230090}

Samoa News, Ltd.
P.O. Box 244
Pago Pago, AS 96799

INVOICE 11464

DATE OF INVOICE
Feb 2, 1990

U.S. Environmental Protection
Agency, Region IX
215 Fremont St.,
San Francisco, Ca. 94105

** PLEASE PAY **
** ON THIS INVOICE **
Please include invoice
number with your payment

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Account #	Ship Date	Ship Via	F.O.B.	Terms	Order Number
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Attn: Fin2/2/90

Net 30 days

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QTY	TYPE	DESCRIPTION	PRICE	AMOUNT
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		2/2/90		200.00
		F/P Ad P.88		
		Order #AR0005		
		Notice of Appl.		
		& Proposed Action		
		by the U.S.		
		EPA		
		Application for a		
		Permit to Transport		
		& Dump Materials		
		into Ocean Waters		
		Public Notice for		
		Ocean Dumping		
		Permit # 0090-01		
		& 0090-02		

RECEIVED

APR 06 1990

Office of Comptroller
U. S. EPA, Region 9

Notice of Appl. 2/2

=====

TOTAL: \$200.00

=====

ADVERTISING ORDER

ORDER NUMBER AR0005

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE
 U.S. EPA, REGION IX, SAN FRANCISCO, CA

DATE
 10/17/89

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

AMERICAN SAMOA NEWS, P.O. BOX #909, PAGO PAGO, AMERICAN SAMOA 96799

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE FOR AS-90-01 & AS-90-02

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

DATE(S) ADVERTISEMENT APPEARED

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.
 ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

IF YOU HAVE ANY QUESTIONS CALL SHELLEY CLARKE AT (415) 974-8301

COPY FOR ADVERTISEMENT

SEE ATTACHED.

Accounting Data

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0501	AR0005	0000AR00050AFE09L000	02540		\$500.00	N

AUTHORITY TO ADVERTISE

NUMBER

EPA Order 1210.5a

DATE

December 13, 1973

SIGNATURE OF AUTHORIZING OFFICIAL

[Signature]
 11/1/89 500.00

INSTRUMENT OF ASSIGNMENT

NUMBER

N/A

DATE

N/A

TITLE

Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC,
 D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-5576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 3:00 p.m., November 15, 1965.

HAT 10-31

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to

U.S. Environmental Protection Agency

Financial Management Office (P-4)
 215 Fremont Street, San Francisco, CA 94105
IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

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For Agency Use Only

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

EPA, Region IX
PLACE VOUCHER PREPARED
SAN FRANCISCO

SANCA NEWS

DATE PREPARED

3/14/90

VOUCHER NUMBER

SCHEDULE NUMBER

NAME OF PUBLICATION

SANCA NEWS

PAID BY

NAME OF PUBLISHER OR REPRESENTATIVE

LEWIS WOLMAN

ADDRESS (Street, room number, city, State, and ZIP code)

P.O. Box 909

PAGO PAGO, AS 96799

CHARGES

TYPEFACE

HELVETICA

(size of type)

10

POINT PER

(inch, square, word, or folio)

Line Rates	NUMBER OR LINES (Indicate counted or space)	COST PER LINE	TOTAL COST
FIRST INSERTION		\$	\$
ADDITIONAL INSERTIONS GIVE NUMBER ▶			
TOTAL			\$
Other Rates	NUMBER OF UNITS (Indicate inch, square, word, folio)	COST PER UNIT	TOTAL COST
FIRST INSERTION	1 FULL PAGE	\$ 200	\$ 200
ADDITIONAL INSERTIONS GIVE NUMBER ▶			
TOTAL			\$ 200

Attach one copy of advertisement (including upper and lower rules) to each copy of voucher here. If copy is not available sign the following affidavit.

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AND OTHER RATES

200

LESS DISCOUNT AT
%

0

BALANCE DUE

\$ 200

VERIFIED (Initials)

l/w

AFFIDAVIT

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SIGNATURE OF PUBLISHER OR REPRESENTATIVE

Lewis Wolman

(LEWIS WOLMAN)

TITLE

PUBLISHER

DATE

3/14/90

FOR AGENCY USE ONLY

ADVERTISEMENT PUBLISHED IN	DATE PUBLISHED
I certify that the advertisement described above appeared in the named publication and that this account is correct and eligible for payment.	
SIGNATURE AND TITLE OF CERTIFYING OFFICER	DATE
SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION	PAID BY CHECK NUMBER

¹ If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.

Notice Of Application and Proposed Action
by the U.S. Environmental Protection Agency (EPA)
REGION IX, 215 FREMONT STREET, SAN FRANCISCO, CALIFORNIA 94105
(415) 974-0257

Application for a Permit to Transport and Dump Materials into Ocean Waters
Public Notice for Ocean Dumping Permit Number OD 90-01 and OD 90-02

Pursuant to Section 102 of the Marine Protection, Research and Sanctuaries of 1972 (MPRSA), as amended (33 U.S.C. 1401 *et seq.*) and 40 CFR 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 FR 2462 *et seq.*, January 11, 1977), notice is hereby given of receipt by this office of complete applications for a permit to transport and dump materials into ocean waters from:

Star-Kist Foods, Inc. and
180 East Ocean Boulevard
Long Beach, California 90802
on behalf of their respective subsidiary companies

Star-Kist Samoa Inc. and
P.O. Box 368
Pago Pago, American Samoa 96799

Van Camp Seafood Company, Inc.
901 Chouteau Avenue
St. Louis, MO 63164

Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

TENTATIVE DETERMINATION

EPA has made the tentative determination to issue a special ocean dumping permit to each applicant, Star-Kist Samoa and Samoa Packing Company, for a three year period. The agency has determined that these permits are required for ocean disposal of fish cannery wastes produced at the American Samoa canneries.

The proposed ocean dumping during the term of the special permits is expected to meet the criteria and have minimal adverse impact on human health and/or the environment. EPA has evaluated data in ocean dumping permits OD 79-01, OD79-02, OD 86-01, OD 87-01, OD 88-01, OD 88-02 and other relevant information. We have determined that the Agency's ocean dumping criteria (40 C.F.R. parts 227 and 228) will be met at the 1,500 fathom (9,000 feet) site proposed for designation.

Efforts to formally designate an ocean disposal site, according to EPA's environmental impact statement policy for ocean disposal sites (39 Fed. Reg. 16186, May 7, 1974; as amended 39 Fed. Reg. 37419 October 24, 1974), began with the publication of a Draft Environmental Impact Statement (DEIS) for site designation on September 16, 1988. After comments were received on the DEIS, EPA selected a proposed disposal site. The site is located in 1,502 fathoms of water at 14 degree 24.00' South latitude by 170 degree, 38.20' West longitude with a radius of 1.5 nautical miles. A Proposed Rule and a Final Environmental Impact Statement were issued in February and March of 1989, respectively. A Final Rule for site designation will be published in the Federal Register before the special permits become effective. These documents are available for review at the offices listed below.

The primary environmental impacts of the proposed discharges are short-term increases in turbidity, inorganic nutrients, biological oxygen demand and ammonia during the dumping event. Scientific studies on ocean disposal of dissolved air flotation (DAF) sludge in American Samoa indicate that water quality parameters return to ambient conditions at the boundary of the disposal site following the period of initial mixing. The 1500 fathom site has been selected to ensure that American Samoa Water Quality Standards are not affected by dumping. Since the center of the site is located approximately 5.45 nautical miles from shore, impacts to sensitive marine resources and human health are not expected.

During the term of the permits, the permittees will be required to conduct the EPA Region-9 approved site monitoring program, including laboratory analyses of waste stream samples, daily monitoring of each dump and monthly monitoring of the disposal site. Information gathered during the term of the special permits plus other relevant data will be used by EPA to determine continued compliance with the ocean dumping criteria.

SUMMARY OF APPLICATION INFORMATION

Star-Kist Samoa and Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, including DAF sludge, precooker water, and presswater. DAF sludge is the material that remains after treatment of fish processing waste to remove grease and suspended particulate matter. The sludge also contains coagulants and odor reducing chemicals that are added during the waste treatment process. Precooker water is a combination of stick water and other process waste water that collects under the steam precookers. Press water is waste water produced at the fish meal plants when a fish scrap is cooked and pressed before being dried to produce a livestock food meal. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

There are no significant changes in the amount of wastes proposed for disposal compared to research permit OD 88-02. During the term of these special permits, and in accordance with all other terms and conditions of the permits, the permittees are authorized to transport for disposal into ocean waters quantities of waste material that shall not exceed the following amounts:

	Star-Kist Samoa	Samoa Packing Co.	Total Permitted
	(gallons/day)	(gallons/day)	Discharge
			(gallons/day)
Waste Material			
DAF Sludge	60,000	31,400	91,400
Precooker Water	100,000	13,300	113,300
Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within a 30 days of the date of this notice, any person may request a public hearing to consider the issuance or denial of, or the conditions to be imposed upon this permit. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; and 3) state any objections to the issuance or denial of, or to the conditions to be imposed upon this permit, and the issues which are proposed to be considered at the hearing. In accordance with 40 C.F.R. section 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

The Administrative Record, which includes the application, the draft permit and other relevant documents, is available for public review Monday through Friday from 9:00 am to 4:00 pm at the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 302, Honolulu, Hawaii 808-541-2710; or at the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, 684-633-2304; or call 415-744-2180 to make special arrangements. Persons wishing to comment on the tentative determination may do so by submitting such written comments within 30 days of the date of this notice to:

Patrick Cotter

U.S. Environmental Protection Agency, Region IX (W-7-1)

215 Fremont Street, San Francisco, California 94105 • Telephone (415) 974-0257

All comments or objections received within 30 days of the date of this notice will be considered in the formulation of final determinations regarding the application. Further information may be obtained by writing or calling the EPA Regional Office or the American Samoa Environmental Protection Agency.

May 11, 1990

Haytonville Calif

Mr. Patrick Cotter

U. S. Environmental Protection Agency (EPA)

Region IX (W-7-1)

1235-Mission St.

San Francisco, Calif. 94103

(415) 705-2162

re: S.F. Chronicle, p. E 9, May 8, 1990, public notice
Revised Application for permits to Transport /
Dump Materials Into Ocean Waters
Supplemental Public Notice for Ocean Dumping
Permits numbers 00-90-01 & 00 90-02

" Pursuant to Section 102 of the Marine Protection,
Research and Sanctuaries Act of 1972 (MPRSA)
as amended (33 U.S.C Section 1401 et seq) and
40 C.F.R. Section 222.3 of EPA's Ocean Dumping
Regulations and Criteria (42 Fed. Reg 2482,
Jan. 11, 1977) notice is hereby given by [your]
Office of Revisions to two draft special
permits for the TRANSPORTATION AND
DISPOSAL OF FISH PROCESSING WASTES INTO
OCEAN WATERS [meaning, I presume, guts,
heads, tails, fins, etc.] " Feb. 2, 1990 in SAMOA
NEWS, applications were received from STARKIST
FOODS, Inc. 180 East Ocean Blvd, Long Beach,
Ca. 90802 and Van CAMP SEAFood CO., Inc,
100 North Broadway, St. Louis Mo. 63102, on
behalf of their respective subsidiary companies:
STARKIST SAMOA, Inc. P.O. Box 368 (or 388)
Pago Pago American Samoa 96799 + UCS Samoa
Packing Co., P.O. Box 957, Pago Pago, Amer. Samoa 96799.
The fish processing plants in Pago Pago are
proposing to dispose of fish processing wastes,
consisting of BAF sludge (33), precooker
water, and press water. " Based on the dilution
levels expected at the designated disposal

(over)

2/ site, the waste materials are NOT (33!) expected to cause SIGNIFICANT long-term impacts to oceanic water quality, marine ecosystems or human health. "The disposal vessel, MV ASTRO, which will be used by both StarKist Samoa + VCS Samoa Packing Co. has a 200,000 gallon capacity.... up from + an increase in the amount of fish processing wastes authorized for disposal from 56,900 gallons @ day to a maximum of 200,000 gallons @ day...."

As the EPA is now reviewing the Modeling Report, revising, making corrections and "within 30 days of the date of this notice, any person may request a public hearing to consider the issuance of, or the conditions to be imposed upon, these permits, I, Randi Dalton of P.O. Box 216, Laytonville, Calif. 95454, do hereby request a public hearing.

There are a number of concerns and issues which must be given full consideration and review. The following points are some, but not all, of the concerns which are self-evident to me:

- ① I object to the size of increase requested from 40,000 gallons @ day to 400,000 gallons @ day - for both companies, of total maximum daily volume of discharge.
- ② I propose that full studies be done to consider stream currents in the ocean, beaches, flora, fauna, sealife (including fish, seaweeds, sharks, coral reef-barrier reefs impacted), native populations, economic impacts, tourist populations, etc.

3/ re: Samea - fish wastes P. O. Box 216
STARVIST permits Laytonville, Ca.
VAN CAMP SEAFOOD CO. 95454

- ③ An E.I.R. in full detail should be mandatory before any changes in current permits are allowed.
- ④ What are the current tuna populations and harvest in the area? What would an increase of the volume proposed do to the fish ecology/balance/inter-related and interdependent relationship? What about sustained yield? Tomorrow's children's capacity to eat and enjoy oceans bounty? What guarantees are there from STARVIST and VAN CAMP that greed today will not destroy or wipe out fish viability and survival for the future? (5) Are conservation efforts to allow only some months of fishing + disallowing it for other periods of time, in effect? (6) What about breeding seasons? (7) What will the increase in fish refuse volume do to the ocean waters? Can + will they be able to absorb + dissolve/eliminate/diffuse/disintegrate/get rid of the quantity proposed? (8) Will sharks be attracted? What impacts on migratory patterns of whales, dolphins, sharks, any + all fish-life? (9) Will beaches &/or lands be impacted? (fish-heads on sands?) (10) Will the tourist industry +/or other fishing industries be impacted? (11) How far off-shore are the proposed disposal sites? Will the ocean

- H. ⑪ currents be sufficient to adequately disperse wastes?
- ⑫ Who is responsible for clean-up and/or pollution/overkill in the event that the tuna industry ^{for EPA} has erred in its judgment that this is an admissible quantity of harvest & disposal?
- ⑬ What about the native Samoan people/villagers/islanders rights to the local fish and waters? impacts?
- ⑭ I believe there will be significant environmental, social, economic, ocean, fish, sociological, flora impacts.
- ⑮ There are many unanswered questions in my mind. I was unaware of the smell? March 1989 E.I.S.
- ⑯ My daughter Susana Meredith's father and grandparents are native to Tutuila Island, American Samoa and I know there is much beauty and serenity in the native ways. Technology, industry, large-scale business has a way of taking too much, too fast, with little thought of tomorrow.
- ⑰ Please, do NOT allow this 1000% increase to go through. Not all growth is beneficial. 3-5% increase - yes, OK. But cancer is an out-of-control growth which eats itself to death. This appears to me to be an ill-conceived plan, in need of further, in-depth consideration, with local, Samoan peoples input and information, education of purpose/intent/mitigating measures/etc. to be first on the agenda, enough colonial exploitation - R.S.V.P.
- Thank-you for your time + consideration,
- Sincerely,
Fandi Dalton
mother/farmer/ocean lover

To: PAT LOTTER

From: Jim Cox / MARYLYN PARKS

Samoa Packing Co. - Ocean Dumping Data - 1990

	(1) Gals. <u>Sludge</u>	(2) Gals. <u>Precooker</u>	(3) Gals. <u>Press</u>	Lbs. <u>Polymer</u>	Lbs. <u>Alum</u>
Feb.	261,087	57,484	28,701	1,759	0
May	345,609	86,918	43,389	4,650	0
July	150,154	58,619	27,313	3,158	0
Aug.	150,311	1,265,900	259,300	4,418	0
Sept.	281,432	1,013,300	187,820	6,975	0
Oct.	326,097	1,342,500	192,000	4,650	0
Nov.	290,979	1,561,820*	235,690	4,650	0
Dec.	103,677	1,153,945*	332,700	3,255	0

* Number adjusted by 35% lower due to inaccurate flowmeter reading.
Total of columns (1),(2),(3) is accurate against hauling totals.

FAXED to OMEP
3/7/91

**LONDON DUMPING
CONVENTION - ANNEX 2**

**REPORT ON RESEARCH AND SPECIAL PERMITS
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IX
CALENDAR YEARS 1988 THROUGH 1990**

CALENDAR YEAR 1988

2.1. Issuing authority: U.S. Environmental Protection Agency, Region IX.

2.2. Permit start date and permit expiration date. Research Ocean Dumping Permit No. OD 88-01. Permit Start Date: March 4, 1988. Permit Expiration Date: September 4, 1988.

2.3. Country of origin of wastes or other matter and port of loading. Country of Origin: American Samoa. Port of Loading: Pago Pago Harbor.

2.4. Detailed specification of waste or other matter and description of the process from which the waste or other matter is derived. The waste authorized for disposal is Dissolved Air Floatation (DAF) Sludge. DAF Sludge is derived from waste streams at fish processing plants, StarKist Samoa, Inc. and Samoa Packing, Inc. Alum and a coagulant polymer are put into the waste streams to control odor and reduce liquid volume, respectively. The waste is limited by the following concentrations: Total Suspended Solids - 219,000 mg/L, 5-Day Biological Oxygen Demand - 337,500 mg/L, Total Phosphorus - 3,390 mg/L, Total Nitrogen - 15,000 mg/L, and Oil and Grease - 151,000 mg/L.

2.5. Form in which waste or other matter is presented for disposal, i.e., solid, liquid, sludge (in case of liquids or sludges include weight percent of insoluble compounds). The DAF Sludge is a sludge waste. No data exists on the percent of insoluble compounds.

2.6. Total quantity (in metric tonnes) of waste or other matter covered. The total amount of DAF Sludge disposed at the ocean disposal site for calendar year 1988 was 36,813 tons (9,634,292 gallons).

2.7. Expected frequency of dumping. The permit was written for disposal on a daily basis. For the most part disposal occurred daily Monday through Friday.

2.8. Chemical composition of waste or other matter (this should be sufficiently detailed to provide adequate information, in particular with regard to the concentration of substances listed in Annexes I and II to the Convention; concentrations in mass per mass units on a dry or wet weight basis).

WASTE CONSTITUENT**AVERAGE CONCENTRATION (1987-1989)****A. Samoa Packing**

Total Solids	196,136 mg/L
Total Suspended Solids	135,266 mg/L
5-Day Biological Oxygen Demand	119,532 mg/L
Total Phosphorus	1,414 mg/L
Total Nitrogen	5,270 mg/L
Oil and Grease	85,176 mg/L
pH	6.2 pH units
Total Volatile Solids	148,967 mg/L
Density	0.95 g/mL
Ammonia	1,345 mg/L

B. StarKist Samoa

Total Solids	142,899 mg/L
Total Suspended Solids	101,218 mg/L
5-Day Biological Oxygen Demand	212,041 mg/L
Total Phosphorus	1,235 mg/L
Total Nitrogen	6,645 mg/L
Oil and Grease	49,426 mg/L
pH	5.9 pH units
Total Volatile Solids	198,863 mg/L
Density	0.99 g/mL
Ammonia	1,994 mg/L

2.9. Properties of waste or other matter:

A. Solubility: Unknown.

B. Relative density (specific gravity): 0.9 to 1.1 g/mL

C. pH: 5.5 to 7.0 pH units

2.10. Method of packaging. All of the DAF Sludge is pumped into a large tanker ship and transported to the disposal site.

2.11. Method of release. The DAF Sludge is released from a discharge valve in the hull of the disposal vessel into the propwash of the ship to achieve adequate initial mixing and comply with the limiting permissible concentration of the waste. The vessel traveled in a circle with a 0.2 nautical mile radius until all of the DAF Sludge was discharged.

2.12. Procedure and site for tank washing. No tank washing procedures are permitted.

2.13. Approved dumping site

A. Geographical position (latitude and longitude): 14° 22' 11" S x 170° 40' 52" W.

B. Depth of water: 900 fathoms

C. Distance from nearest coast: 3.25 nautical miles

2.14. Monitoring requirements and plans. Water samples in the plume up to four hours after disposal. Analysis of waste stream for constituents listed in permit.

2.15. Additional information with regard to the factors listed in Annex III of the Convention, in particular on the toxicity of the waste or other matter (type of toxicity test, e.g., 96-hour LC50, test species used). In case of chemical waste provide any information available on the biodegradability of the waste.

A. 96-hour Suspended Particulate Phase Bioassays.

Fundulus parvipinnis LC50 = 0.53% average of mixed samples (1987)

Acanthomysis sculpta LC50 = 0.20% average of mixed samples (1987)

Eurydice caudata LC50 = 1.44% average of mixed samples (1987)

B. Biodegradability: Unknown.

CALENDAR YEAR 1989

2.1. Issuing authority: U.S. Environmental Protection Agency, Region IX.

2.2. Permit start date and permit expiration date. Research Ocean Dumping Permit No. OD 88-02. Permit Start Date: September 6, 1988. Permit Expiration Date: February 6, 1989. The permit was administratively extended until a special permit could be issued because the Ocean Dumping Ban Act prohibited all new research permits.

2.3. Country of origin of wastes or other matter and port of loading. Country of Origin: American Samoa. Port of Loading: Pago Pago Harbor.

2.4. Detailed specification of waste or other matter and description of the process from which the waste or other matter is derived. The waste authorized for disposal is Dissolved Air Floatation (DAF) Sludge. DAF Sludge is derived from waste streams at fish processing plants, StarKist Samoa, Inc. and Samoa Packing, Inc. Alum and a coagulant polymer are put into the waste streams to control odor and reduce liquid volume, respectively. The waste is limited by the following concentrations: Total Suspended Solids - 219,000 mg/L, 5-Day Biological Oxygen Demand - 337,500 mg/L, Total Phosphorus - 3,390 mg/L, Total Nitrogen - 15,000 mg/L, and Oil and Grease - 151,000 mg/L.

2.5. Form in which waste or other matter is presented for disposal, i.e., solid, liquid, sludge (in case of liquids or sludges include weight percent of insoluble compounds). The DAF Sludge is a sludge waste. No data exists on the percent of insoluble compounds.

2.6. Total quantity (in metric tonnes) of waste or other matter covered. The total amount of DAF Sludge disposed at the ocean disposal site for calendar year 1989 was 37,277 tons (10,552,925 gallons).

2.7. Expected frequency of dumping. The permit was written for disposal on a daily basis. For the most part disposal occurred daily Monday through Friday.

2.8. Chemical composition of waste or other matter (this should be sufficiently detailed to provide adequate information, in particular with regard to the concentration of substances listed in Annexes I and II to the Convention; concentrations in mass per mass units on a dry or wet weight basis).

WASTE CONSTITUENT**AVERAGE CONCENTRATION (1987-1989)****A. Samoa Packing**

Total Solids	196,136 mg/L
Total Suspended Solids	135,266 mg/L
5-Day Biological Oxygen Demand	119,532 mg/L
Total Phosphorus	1,414 mg/L
Total Nitrogen	5,270 mg/L
Oil and Grease	85,176 mg/L
pH	6.2 pH units
Total Volatile Solids	148,967 mg/L
Density	0.95 g/mL
Ammonia	1,345 mg/L

B. StarKist Samoa

Total Solids	142,899 mg/L
Total Suspended Solids	101,218 mg/L
5-Day Biological Oxygen Demand	212,041 mg/L
Total Phosphorus	1,235 mg/L
Total Nitrogen	6,645 mg/L
Oil and Grease	49,426 mg/L
pH	5.9 pH units
Total Volatile Solids	198,863 mg/L
Density	0.99 g/mL
Ammonia	1,994 mg/L

2.9. Properties of waste or other matter:

A. Solubility: Unknown.

B. Relative density (specific gravity): 0.9 to 1.1 g/mL

C. pH: 5.5 to 7.0 pH units

2.10. Method of packaging. All of the DAF Sludge is pumped into a large tanker ship and transported to the disposal site.

2.11. Method of release. The DAF Sludge is released from a discharge valve in the hull of the disposal vessel into the propwash of the ship to achieve adequate initial mixing and comply with the limiting permissible concentration of the waste. The vessel traveled in a circle with a 0.2 nautical mile radius until all of the DAF Sludge was discharged.

2.12. Procedure and site for tank washing. No tank washing procedures are permitted.

2.13. Approved dumping site

A. Geographical position (latitude and longitude): 14° 22' 11" S x 170° 40' 52" W.

B. Depth of water: 900 fathoms

C. Distance from nearest coast: 3.25 nautical miles

2.14. Monitoring requirements and plans. Water samples in the plume up to four hours after disposal. Analysis of waste stream for constituents listed in permit.

2.15. Additional information with regard to the factors listed in Annex III of the Convention, in particular on the toxicity of the waste or other matter (type of toxicity test, e.g., 96-hour LC50, test species used). In case of chemical waste provide any information available on the biodegradability of the waste.

A. 96-hour Suspended Particulate Phase Bioassays.

Fundulus parvipinnis LC50 = 0.53% average of mixed samples (1987)

Acanthomysis sculpta LC50 = 0.20% average of mixed samples (1987)

Eurydice caudata LC50 = 1.44% average of mixed samples (1987)

B. Biodegradability: Unknown.

CALENDAR YEAR 1990

2.1. Issuing authority: U.S. Environmental Protection Agency, Région IX.

2.2. Permit start date and permit expiration date. Special Ocean Dumping Permit Nos. OD 90-01 (StarKist Samoa) and OD 90-02 (Samoa Packing). Permit Start Date: July 31, 1990. Permit Expiration Date: July 30, 1993.

2.3. Country of origin of wastes or other matter and port of loading. Country of Origin: American Samoa. Port of Loading: Pago Pago Harbor.

2.4. Detailed specification of waste or other matter and description of the process from which the waste or other matter is derived. The waste authorized for disposal is Dissolved Air Flootation (DAF) Sludge, Press Water and Precooker Water. Alum and a coagulant polymer are put into the waste streams to control odor and reduce liquid volume, respectively. All three wastes are derived from waste streams at fish processing plants, StarKist Samoa, Inc. and Samoa Packing, Inc. The waste is limited by the following concentrations:

A. StarKist Samoa

DAF Sludge	
Total Solids	230,460 mg/L
5-Day Biological Oxygen Demand	376,520 mg/L
Total Phosphorus	3,050 mg/L
Total Nitrogen	18,100 mg/L
Oil and Grease	129,590 mg/L
Total Volatile Solids	182,210 mg/L
Density	0.92 to 1.07 g/mL
Ammonia	7,500 mg/L

Precooker Water	
Total Solids	158,290 mg/L
5-Day Biological Oxygen Demand	365,450 mg/L
Total Phosphorus	1,150 mg/L
Total Nitrogen	21,380 mg/L
Oil and Grease	4,830 mg/L
Total Volatile Solids	146,900 mg/L
Density	0.97 to 1.06 g/mL
Ammonia	21,200 mg/L

Press Water	
Total Solids	271,920 mg/L
5-Day Biological Oxygen Demand	399,090 mg/L
Total Phosphorus	1,990 mg/L
Total Nitrogen	31,550 mg/L
Oil and Grease	62,150 mg/L

Total Volatile Solids	385,630 mg/L
Density	0.96 to 1.07 g/mL
Ammonia	21,170 mg/L

B. Samoa Packing

DAF Sludge	
Total Solids	492,000 mg/L
5-Day Biological Oxygen Demand	443,840 mg/L
Total Phosphorus	3,910 mg/L
Total Nitrogen	14,950 mg/L
Oil and Grease	282,750 mg/L
Total Volatile Solids	308,700 mg/L
Density	0.85 to 1.08 g/mL
Ammonia	2,570 mg/L

Precooker Water	
Total Solids	257,290 mg/L
5-Day Biological Oxygen Demand	60,220 mg/L
Total Phosphorus	2,170 mg/L
Total Nitrogen	20,820 mg/L
Oil and Grease	207,830 mg/L
Total Volatile Solids	358,180 mg/L
Density	0.96 to 1.04 g/mL
Ammonia	2,740 mg/L

Press Water	
Total Solids	463,780 mg/L
5-Day Biological Oxygen Demand	524,270 mg/L
Total Phosphorus	6,860 mg/L
Total Nitrogen	32,020 mg/L
Oil and Grease	386,480 mg/L
Total Volatile Solids	384,560 mg/L
Density	0.98 to 1.07 g/mL
Ammonia	4,940 mg/L

2.5. Form in which waste or other matter is presented for disposal, i.e., solid, liquid, sludge (in case of liquids or sludges include weight percent of insoluble compounds). The DAF Sludge is a sludge waste. No data exists on the percent of insoluble compounds.

2.6. Total quantity (in metric tonnes) of waste or other matter covered. The total amount of DAF Sludge disposed at the ocean disposal site for calendar year 1990 was 30,086 tons (8,357,130 gallons). No data as yet on Precooker and Press Water disposed after July 1990.

2.7. Expected frequency of dumping. The permit was written for disposal on a daily basis. For the most part disposal occurred daily Monday through Friday.

2.8. Chemical composition of waste or other matter (this should be sufficiently detailed to provide adequate information, in particular with regard to the concentration of substances listed in Annexes I and II to the Convention; concentrations in mass per mass units on a dry or wet weight basis).

WASTE CONSTITUENT	AVERAGE CONCENTRATION (1987-1989)
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A. Samoa Packing	
Total Solids	196,136 mg/L
Total Suspended Solids	135,266 mg/L
5-Day Biological Oxygen Demand	119,532 mg/L
Total Phosphorus	1,414 mg/L
Total Nitrogen	5,270 mg/L
Oil and Grease	85,176 mg/L
pH	6.2 pH units
Total Volatile Solids	148,967 mg/L
Density	0.95 g/mL
Ammonia	1,345 mg/L
B. StarKist Samoa	
Total Solids	142,899 mg/L
Total Suspended Solids	101,218 mg/L
5-Day Biological Oxygen Demand	212,041 mg/L
Total Phosphorus	1,235 mg/L
Total Nitrogen	6,645 mg/L
Oil and Grease	49,426 mg/L
pH	5.9 pH units
Total Volatile Solids	198,863 mg/L
Density	0.99 g/mL
Ammonia	1,994 mg/L

2.9. Properties of waste or other matter:

- A. Solubility: Unknown.
- B. Relative density (specific gravity): 0.9 to 1.1 g/mL
- C. pH: 5.5 to 7.0 pH units

2.10. Method of packaging. All of the DAF Sludge is pumped into a large tanker ship and transported to the disposal site.

2.11. Method of release. The DAF Sludge is released from a discharge valve in the hull of the disposal vessel into the propwash of the ship to achieve adequate initial mixing and comply with the limiting permissible concentration of the waste. The vessel travels in a crossing track at the upcurrent quadrant of the disposal site until all of the DAF Sludge was discharged. Disposal outside of the site boundary is not permitted.

2.12. Procedure and site for tank washing. No tank washing procedures are permitted.

2.13. Approved dumping site

A. Geographical position (latitude and longitude): 14° 24.00' S x 170° 38.30' W.

B. Depth of water: 1,500 fathoms

C. Distance from nearest coast: 5.0 nautical miles

2.14. Monitoring requirements and plans. Water samples in the plume up to four hours after disposal. Analysis of waste stream for constituents listed in permit.

2.15. Additional information with regard to the factors listed in Annex III of the Convention, in particular on the toxicity of the waste or other matter (type of toxicity test, e.g., 96-hour LC50, test species used). In case of chemical waste provide any information available on the biodegradability of the waste.

A. 96-hour Suspended Particulate Phase Bioassays.

Fundulus parvipinnis LC50 = 0.53% average of mixed samples (1987)

Acanthomysis sculpta LC50 = 0.20% average of mixed samples (1987)

Eurydice caudata LC50 = 1.44% average of mixed samples (1987)

B. Biodegradability: Unknown.

NOTICE OF APPLICATION AND PROPOSED ACTION
by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
REGION IX
215 FREMONT STREET
SAN FRANCISCO, CALIFORNIA 94105
(415) 744-1640

Applications for Permits to Transport
and Dump Materials into Ocean Waters

Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to section 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. 1401 et seq.) and 40 C.F.R. section 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 FR 2462 et seq., January 11, 1977), notice is hereby given of receipt by this office of complete applications for permits to transport and dump materials into ocean waters from:

Star-Kist Foods, Inc.	and	Van Camp Seafood Company, Inc.
180 East Ocean Boulevard		901 Chouteau Avenue
Long Beach, CA 90802		St. Louis, MO 63164

on behalf of their respective subsidiary companies

Star-Kist Samoa, Inc.	and	Samoa Packing Company, Inc.
P.O. Box 368		P.O. Box 957
Pago Pago, AS 96799		Pago Pago, AS 96799

TENTATIVE DETERMINATION

EPA has made the tentative determination to issue a special ocean dumping permit to each applicant, Star-Kist Samoa and Samoa Packing Company, for a three year period. The Agency has determined that these permits are required for ocean disposal of fish cannery wastes produced at the American Samoa canneries.

The proposed ocean dumping during the term of the special permits is expected to meet the criteria and have minimal adverse impact on human health and/or the environment. EPA has evaluated data in ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01, OD 88-02 and other relevant information. We have determined that the Agency's ocean dumping criteria (40 C.F.R. Parts 227 and 228) will be met at the 1,500 fathom (9,000 feet) site proposed for designation.

Efforts to formally designate an ocean disposal site, according to EPA's environmental impact statement policy for ocean disposal sites (39 Fed. Reg. 16186, May 7, 1974; as amended 39 Fed. Reg. 37419, October 24, 1974), began with the publication of a Draft Environmental Impact Statement (DEIS) for site

designation on September 16, 1988. After comments were received on the DEIS, EPA selected a proposed disposal site. The site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. A Proposed Rule and a Final Environmental Impact Statement were issued in February and March of 1989, respectively. A Final Rule for site designation will be published in the Federal Register before the special permits become effective. These documents are available for review at the offices listed below.

The primary environmental impacts of the proposed discharges are short-term increases in turbidity, inorganic nutrients, biological oxygen demand and ammonia during the dumping event. Scientific studies on ocean disposal of dissolved air flotation (DAF) sludge in American Samoa indicate that water quality parameters return to ambient conditions at the boundary of the disposal site following the period of initial mixing. The 1,500 fathom site has been selected to ensure that American Samoa Water Quality Standards are not affected by dumping. Since the center of the site is located approximately 5.45 nautical miles from shore, impacts to sensitive marine resources and human health are not expected.

During the term of the permits, the permittees will be required to conduct the EPA Region 9-approved site monitoring program, including laboratory analyses of waste stream samples, daily monitoring of each dump and monthly monitoring of the disposal site. Information gathered during the term of the special permits plus other relevant data will be used by EPA to determine continued compliance with the ocean dumping criteria.

SUMMARY OF APPLICATION INFORMATION

Star-Kist Samoa and Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, including DAF sludge, precooker water, and presswater. DAF sludge is the material that remains after treatment of fish processing waste to remove grease and suspended particulate matter. The sludge also contains coagulants and odor reducing chemicals that are added during the waste treatment process. Precooker water is a combination of stick water and other process waste water that collects under the steam pre-cookers. Press water is waste water produced at the fish meal plants when fish scrap is cooked and pressed before being dried to produce a livestock food meal. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

There are no significant changes in the amount of wastes proposed for disposal compared to research permit OD 88-02. During the term of these special permits, and in accordance with all other terms and conditions of the permit, the permittees are

authorized to transport for disposal into ocean waters quantities of waste material that shall not exceed the following amounts:

Waste Material	Star-Kist Samoa (gallons/day)	Samoa Packing Co. (gallons/day)	Total Permitted Discharge (gallons/day)
DAF Sludge	60,000	31,400	91,400
Precooker Water	100,000	13,300	113,300
Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within 30 days of the date of this notice, any person may request a public hearing to consider the issuance or denial of, or the conditions to be imposed upon this permit. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; and 3) state any objections to the issuance or denial of, or to the conditions to be imposed upon this permit, and the issues which are proposed to be considered at the hearing. In accordance with 40 C.F.R section 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

The Administrative Record, which includes the application, the draft permit and other relevant documents, is available for public review Monday through Friday from 9:00 am to 4:00 p.m. at the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii (808) 541-2710; or at the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, (684) 633-2304; or call (415) 744-2180 to make special arrangements. Persons wishing to comment on the tentative determination may do so by submitting such written comments within 30 days of the date of this notice to:

Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
215 Fremont Street
San Francisco, California 94105
Telephone (415) 744-2180

All comments or objections received within 30 days of the date of this notice will be considered in the formulation of final determinations regarding the application. Further information may be obtained by writing or calling the U.S. EPA or the American Samoa Environmental Protection Agency.

8-13-91

Mr. Cotter,

amendatory

Please use the following language and set out the text as stated below to ensure proper inclusion in the CFR.

PART 228-[AMENDED]

1. The authority citation for part 228 continues to read as follows:

Authority: 33 U.S.C. 1412 and 1418.

2. Section 228.12 is amended by revising paragraph (b)(74) to read as follows:

§ 228.12 Delegation of management authority for interim ocean dumping sites.

* * * * *

(b) American Samoa Fish Processing Waste Disposal

Site—Region IX.

Location:

14° 24.00' South latitude by 170° 38.20' West longitude (1.5 nautical mile radius).

Size: 7.07 square nautical miles.

Depth: 1,502 fathoms (2,746 meters or 9,012 feet).

Primary Use: Disposal of fish processing wastes.

Period of Use: Continued use.

Restrictions: Disposal shall be limited to dissolved air flotation (DAF) sludge, press-water, and precooker water produced as a result of fish processing operations at fish canneries generated in American Samoa.

* * * * *

Alomha Morris,
CFR Unit Chief
(202) 523-3419

Amendatory language: Terms

The amendatory language identifies each specific change made in CFR text.

Amendatory language serves as the agency's instructions to—

- Inform the reader of the specific changes made to agency regulations; and
- Guide the OFR editor in updating the CFR.

Amendatory language must be exact. It must describe each change as it affects the current text of the CFR. Check the latest revision of the CFR volume being amended, the latest edition of the LSA, and the cumulative list of CFR Parts Affected in the current month's Federal Register to establish the current text of the regulation. (See examples 31 through 33 on page 27.) The amendatory language for each change must—

- Identify the specific CFR unit being amended by its complete numerical and alphabetical designation; and
- Describe how that CFR unit is being changed.

The following terms must be used in amendatory language. Each term is a precise instruction that alters a CFR unit in a prescribed manner. The OFR has selected these terms to standardize amendatory language.

Amended. Amended means that an existing CFR unit is changed. Because it is an introductory term, it cannot stand alone. It must be used with other amendatory terms.

EXAMPLE 34: AMENDED.

Part 200 is amended by adding §§ 200.4 and 200.6 to read as follows:

Part 215 is amended by removing §215.7.

Section 791.27 is amended by revising paragraph (b)(3) and by adding paragraph (d)(4) to read as follows:

Added. Added means that a unit of new material, such as a paragraph, section, part, or chapter, is inserted in the CFR.

EXAMPLE 35: ADDED.

Part 1812 is added to read as follows:

In § 18.13, paragraph (e) is added to read as follows:

A new paragraph (f)(5) is added to § 210.14 to read as follows:

Section 4.8(a)(3)(iii) is added to read as follows:

Section 20.89 is added to Subpart H to read as follows:

Removed. Removed means that an existing CFR unit is being taken out of the CFR.

EXAMPLE 36: REMOVED.

Section 300.12 is removed.

In § 495.73, paragraphs (a)(5) and (e) are removed.

Revised. Revised means that an existing CFR unit is presented in its entirety. Any discussion of how the unit differs from the previous version belongs in the SUPPLEMENTARY INFORMATION.

EXAMPLE 37: REVISED.

Part 105 is revised to read as follows:

Section 80.100(e)(1)(iii) is revised to read as follows:

In § 15.4, the introductory text of paragraph (b) and paragraph (f)(2) are revised to read as follows:

Republished. Republished means that an unchanged CFR unit is set out for the convenience of the reader, often to provide the context for an amendment. This is used most commonly with introductory text. All regulatory text which is published or republished in a rule document in the Federal Register is used to update the Code of Federal Regulations. Therefore, the agency must present the republished text accurately.

EXAMPLE 38: REPUBLISHED.

In §2.1, paragraph (a) introductory text is republished and paragraphs (a)(1) and (3) are revised to read as follows:

Reserved. Reserved is a term used to maintain the continuity of codification in the CFR.

For example, removing a subpart or a paragraph may leave a gap which could confuse the reader. To avoid confusion, the amendatory language should say that the subpart or paragraph is removed and reserved. (See example 39.)

Reserved can also be used when adding or revising a CFR unit to indicate where future text will be added. (See example 40.)

See the table of contents on page 33 for proper display.

EXAMPLE 39: RESERVED (WHEN REMOVING CFR UNIT).

Subpart Q [Removed and Reserved]

1. Subpart Q is removed and reserved.

EXAMPLE 40: RESERVED (WHEN ADDING OR REVISING A CFR UNIT).

1. Subpart E is added and reserved and Subpart F is added to read as follows:
-

Corrected. Corrected means that a clerical or typographical error in a recently published document is corrected. Corrections to the regulatory text should identify the CFR unit being corrected. (See page 68 for examples of correction documents.)

EXAMPLE 41: CORRECTED.

On page 00000 in the issue of March 15, 1986, in the second column, the reference in § 39.10(a)(1) to "§ 44.10" is corrected to read "§ 44.20".

On page 00000 in the issue of May 3, 1986, in the third column, in § 20.15(c) introductory text, "Director" is corrected to read "Acting Director".

Redesignated. Redesignated means that a CFR unit is transferred to another position and assigned a new designation. A redesignation must be made before adding a new unit of text to an area vacated by the redesignation.

TABLE 52.1167—EPA-Approved Rules and Regulations

State citation	Title/subject	Date submitted by State	Date approved by EPA	Federal Register citation	52.1120(c)	Comments/unapproved sections
310 CMR 7.18(17)	Reasonably Available Control Technology (RACT).	November 17, 1989.....	[Date revision is published in FR].	[FR citation from published date].	(86)	RACT for Boston Whaler in Rockland. Amended Plan Approval (4P89006) dated October 19, 1989 and Plan Approval 4P89006 Correction dated November 17, 1989.

[FR Doc. 90-17905 Filed 8-2-90; 8:45 am]
BILLING CODE 6560-50-M

40 CFR Part 61

[FRL-3814-6]

National Emission Standards for Hazardous Air Pollutants; Delegation of Authority to the State of Iowa

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of delegation of authority.

SUMMARY: This notice announces the delegation of authority by EPA to the state of Iowa for the implementation and enforcement of the asbestos demolition and renovation portions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR part 61, subpart M. The NESHAP delegation now includes all categories promulgated through March 7, 1990, except for those covering radon (subparts B, Q, R, T, and W), radionuclides (subparts H, I, and K), and benzene (subparts L, Y, BB, and FF).

EFFECTIVE DATE: August 3, 1990.

ADDRESSES: All requests, reports, applications, submittals and such other communications required to be submitted under 40 CFR part 61, including notifications required to be submitted under subpart A of the regulations, for affected facilities or activities in Iowa should be sent to Chief, Air Quality and Solid Waste Protection Bureau, Iowa Department of Natural Resources, Henry A. Wallace State Office Building, 900 East Grand, Des Moines, Iowa 50319. A copy of all notices required by subpart A also must be sent to Director, Air and Toxics Division, U.S. EPA, Region VII, 726 Minnesota Avenue, Kansas City, Kansas 66101.

FOR FURTHER INFORMATION CONTACT: Carol D. LeValley, Air Planning and Development Section, Air Branch, U.S. EPA, Region VII, at the above address or by calling (913) 551-7610 (FTS 276-7610).

SUPPLEMENTARY INFORMATION: Section 112(d) of the Clean Air Act allows the Administrator of the EPA to delegate to any state government authority to implement and enforce the standards promulgated by the agency under 40 CFR part 61. EPA retains concurrent authority to implement and enforce the delegated standards. The delegation shifts the primary responsibility for implementation and enforcement of the standards from EPA to the state government.

On August 20, 1984, EPA and the state of Iowa entered into a delegation of authority agreement whereby Iowa automatically receives authority to implement and enforce federal NSPS and NESHAP standards upon the adoption of the standards by the state government. (See 50 FR 933)

Prior to August 20, 1984, EPA delegated to the state of Iowa authority to implement and enforce the standards for numerous categories in various delegation and extension of authority actions. The action described below does not affect these previous delegation or extension of authority actions.

On June 13, 1990, Iowa revised its rules to adopt, by reference, the standards for the asbestos demolition and renovation portions of the NESHAP regulations, 40 CFR part 61, subpart M. The adoption action and regulation changes became effective on July 18, 1990. The IDNR informed EPA of the adoption action in a letter dated June 15, 1990. EPA subsequently acknowledged the adoption and the corresponding delegation of authority in a letter to IDNR on July 11, 1990. The delegation occurred under the terms of the above-mentioned August 20, 1984, automatic delegation of authority agreement.

EPA hereby notifies interested individuals that, effective (insert date of publication), EPA delegates the authorization to implement and enforce the federally established standards for 40 CFR part 61, subpart M (demolition and renovation) to the state of Iowa.

This notice is issued under the authority of sections 111 and 112 of the Clean Air Act, as amended (42 U.S.C. 7411 and 7412).

Dated: July 17, 1990.

Morris Kay,

Regional Administrator.

[FR Doc. 90-18168 Filed 8-2-90; 8:45 am]

BILLING CODE 6560-50-M

40 CFR Part 228

[FRL-3816-6]

Ocean Dumping; Final Designation of Site Located Offshore of Tutuila Island, American Samoa

AGENCY: Environmental Protection Agency.

ACTION: Final rule; correction of effective date.

SUMMARY: The Federal Register publications on February 6, 1990, 55 FR 3948, and on May 16, 1990, 55 FR 20274, pertain to the final rule for designating an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes are hereby corrected. This correction applies to the effective date of the designated site.

The three-year special ocean dumping permits for StarKist Samoa, Inc. and VCS Samoa Packing Company, Inc. become effective on July 31, 1990. The effective date of the ocean disposal site is also July 31, 1990.

DATES: This designation shall become effective on July 31, 1990.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

Dated: July 20, 1990.

Daniel W. McGovern,
Regional Administrator, Region IX.

In consideration of the foregoing, subchapter H of chapter 1 of title 40 is amended as set forth below.

PART 228—[AMENDED]

1. The authority citation for part 228 continues to read as follows:

Authority: 33 U.S.C. 1412 and 1418.

2. Section 228.12 is amended by revising paragraph (b)(74), to read as follows:

§ 228.12 Delegation of management authority for ocean dumping sites.

(b) . . .

(74) American Samoa Fish Processing Waste Disposal Site-Region IX.

Effective Date: July 31, 1990.

[FR Doc. 90-18169 Filed 8-2-90; 8:45 am]

BILLING CODE 6560-50-M

40 CFR Part 372

[OPTS-400044A; FRL-3772-3]

Ozone Depleting Chemicals; Toxic Chemical Release Reporting; Community Right-To-Know; Addition of Chemicals

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: On January 9, 1990, EPA received a petition from three State Governors and the Natural Resources Defense Council to add seven ozone depleting chemicals to the list of toxic chemicals subject to reporting under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). Because this petition was submitted by State Governors, the statute required that these chemicals be added to the list unless EPA acted within 180 days by initiating rulemaking to add the chemicals or by publishing an explanation of why the chemicals do not meet the statutory criteria for listing. Because EPA did not initiate rulemaking to add the chemicals or deny the petition by the statutory deadline of July 8, 1990, the addition of these chemicals has taken effect. EPA affirms its belief that these chemicals do meet the statutory criteria for listing and should be included on the list. The first reports for these chemicals will be due July 1, 1992, to cover the 1991 reporting year.

EFFECTIVE DATE: This rule is effective August 3, 1990.

FOR FURTHER INFORMATION CONTACT: Robert J. Israel, Petitions Coordinator, Emergency Planning and Community Right-to-Know, Information Hotline, Environmental Protection Agency, Mail Stop OS-120, 401 M St., SW., Washington, DC 20460. Toll free: 800-535-0202. In Washington, DC and Alaska, 202-479-2449.

SUPPLEMENTARY INFORMATION:

I. Introduction

A. Statutory Authority

This petition is submitted under section 313(d) and (e)(2) of the Emergency Planning and Community Right-to-Know Act of 1986 (Pub. L. 99-499, "EPCRA"). EPCRA is also referred to as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986.

B. Background

Section 313 of EPCRA requires certain facilities that manufacture, process, or otherwise use toxic chemicals to report annually their environmental releases of such chemicals. Section 313 establishes an initial list of toxic chemicals that is composed of more than 300 chemicals and chemical categories. Any person may petition the Agency to add chemicals to or delete chemicals from the list. If a State Governor petitions EPA to add a chemical to the list, the chemical will be added to the list within 180 days after receipt of the petition, unless the Administrator:

(1) Initiates a rulemaking to add the chemicals to the list, in accordance with section 313(d)(2), or

(2) Publishes an explanation of why the Administrator believes the petition does not meet the statutory requirements under section 313(d)(2) to warrant addition to the list.

II. Description of Petition

On January 9, 1990, EPA received from Governor Thomas Kean of New Jersey, Governor Mario Cuomo of New York, and Governor Madeleine Kunin of Vermont, as well as the Natural Resources Defense Council (NRDC), a petition to add seven ozone depleting chemicals to the section 313 list of toxic chemicals. Specifically, the seven chemicals are trichlorofluoromethane (CFC-11) (CAS Registry Number 75-69-4), dichlorodifluoromethane (CFC-12) (CAS Registry Number 75-71-8), dichlorotetrafluoroethane (CFC-114) (CAS Registry Number 76-14-2), (mono)chloropentafluoroethane (CFC-115) (CAS Registry Number 76-15-3), bromochlorodifluoromethane (Halon 1211) (CAS Registry Number 421-01-2), bromotrifluoromethane (Halon 1301)

(CAS Registry Number 75-63-8), and dibromotetrafluoroethane (Halon 2402) (CAS Registry Number 124-73-2).

The petition is based on two EPA documents, "Assessing the Risk of Trace Gases that Can Modify the Stratosphere" (Ref. 1) and "Regulatory Impact Analysis: Protection of Stratospheric Ozone" (Ref. 2). These documents were prepared in support of an EPA rulemaking of August 12, 1988 (53 FR 30566), limiting production and consumption of eight chlorofluorocarbons (CFCs) and halons because of their depleting effect on stratospheric ozone. Seven of those eight chemicals are the subject of this petition; the eighth, CFC-113 (Freon 113), is already on the section 313 list.

The petitioners contend that the petitioned chemicals satisfy section 313(d)(2)(B) because they are known to cause cancer and other chronic health effects in humans through depletion of the stratospheric ozone layer and the resulting increase in penetration of UV-B radiation. The petitioners also claim that these chemicals satisfy section 313(d)(2)(C) because they cause significant adverse effects on the environment. The two documents cited above provide support for these assertions.

III. Summary of EPA's Review

A. Introduction

EPA has already extensively evaluated the risks of ozone depletion and the role of CFCs and halons in that depletion and published its findings in the two documents cited above. Based on these documents, EPA concluded that continued growth in CFCs and halons would result in substantial ozone depletion which would have serious human health and environmental consequences. This conclusion led to the decision to promulgate a rule limiting production and consumption of eight CFCs and halons, including the seven chemicals which are the subject of this petition.

EPA's concerns for these chemicals do not focus on direct toxicity, but rather on the depleting effect these chemicals have on stratospheric ozone and the increase in penetration of UV-B radiation which will result. The seven CFCs and halons are known to release chlorine or bromine radicals into the stratosphere. Chlorine and bromine radicals act as catalysts to reduce the net amount of stratospheric ozone. Stratospheric ozone shields the earth from ultraviolet-B (UV-B) radiation (i.e., 290 to 320 nanometers). Decreases in total column ozone will increase the

40 CFR Part 228

(FRL-3779-3)

Ocean Dumping; Final Designation of Site Located Offshore of Tutuila Island, American Samoa**AGENCY:** Environmental Protection Agency.**ACTION:** Final rule; correction.

SUMMARY: The Federal Register publication on February 6, 1990, (55 FR 3948), of the Final rule to designate an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes is hereby corrected. This correction applies to the preamble of the final rule as well as the final rule. In both the preamble to the final rule and the final rule, the center of the disposal site was erroneously designated as being 5.45 nautical miles from land and having a 14°24.00' South latitude by 170°38.20' West longitude. The actual longitude of the disposal site, as correctly identified in the Final Environmental Impact Statement (FEIS), dated February 3, 1989, is 170°38.30' West longitude. In addition, under the heading "E. Regulatory Requirements" in the preamble to the final rule, the text erroneously stated that the longshore current is located between Pago Pago Harbor and the southeastern end of the island. The current actually flows between Pago Pago Harbor and the southwestern end of the island.

DATES: This designation shall become effective when three-year special ocean dumping permits for Starkist Samoa, Inc. and VCS Samoa Packing Company, Inc. are issued.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

Dated: May 1, 1990.

John Wise,

Acting, Regional Administrator, Region IX, U.S. Environmental Protection Agency.

In consideration of the foregoing, subchapter H of chapter I of title 40 is amended as set forth below.

PART 228—[AMENDED]

1. The authority citation for part 228 continues to read as follows:

Authority: 33 U.S.C. 1412 and 1418.

2. Section 228.12 is amended by revising paragraph (b)(74) to read as follows:

§ 228.12 Delegation of management authority for ocean dumping sites.

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site-Region IX
Location: 14°24.00' South latitude by 170°38.30' West longitude (1.5 nautical mile radius).

[FR Doc. 90-11379 Filed 5-15-90; 8:45 am]
BILLING CODE 6560-50-M

DEPARTMENT OF COMMERCE**National Oceanic and Atmospheric Administration****50 CFR Part 650**

[Docket No. 51222-6240]

Atlantic Sea Scallop Fishery

AGENCY: National Marine Fisheries Service (NMFS), NOAA, Commerce.
ACTION: Temporary adjustment of the meat count standard; extension of effective date.

SUMMARY: NMFS issues this notice to extend the duration of the temporary adjustment of the meat count and shell height standards for the Atlantic sea scallop fishery. This action extends to September 30, 1990, the temporary adjustment of the meat count/shell height standard of 33 meats per pound (MPP) (meats per 0.45 kg) and 3 3/4 inch (87 mm) shell height that was to expire on May 11, 1990. This action is taken at the request of the New England Fishery Management Council (Council).

EFFECTIVE DATE: May 12, 1990, through September 30, 1990.

FOR FURTHER INFORMATION CONTACT: Patricia A. Kurkul, Resource Policy Analyst, Plan Administration Branch, NMFS Northeast Regional Office, 508-281-9331.

SUPPLEMENTARY INFORMATION: Regulations at 50 CFR part 650 implementing the Fishery Management Plan for Atlantic Sea Scallops (FMP) provide authority to the Director, Northeast Region, NMFS (Regional Director), to adjust temporarily the meat count/shell height standards (standards) upon finding that specific criteria are met.

On February 9, 1990 (55 FR 4613), a notice was published in the Federal Register implementing a temporary adjustment of the standards to 33 MPP (3 3/4 inches (89 mm) shell height) and outlining the process by which the adjustment was made. This adjustment was effective through April 30, 1990. On May 3, 1990 (55 FR 18604), a notice was published in the Federal Register extending this adjustment through May 11, 1990. The purpose of the extension was to allow the Council time to discuss this issue at its May meeting.

On May 3, 1990, the Council voted to recommend that the Regional Director continue the extension of the temporary adjustment to the standards. The Council believes that an extension is necessary because of the preponderance of small scallops in the fishery, which is making it difficult for the industry to remain economically viable. The Council also voted to prepare an amendment to the FMP that will include measures to cap effort in this fishery; the recommendation from the Council is to continue the temporary adjustment of the standards until that amendment has been approved and implemented. The Regional Director has decided to extend the temporary adjustment an additional 5 months, until September 30, 1990. The FMP, as amended, specifies a 10 percent increase in the meat count standard during the months of October through January; the period when spawning causes a reduction in the meat weight of scallops. This extension of the temporary adjustment will end on September 30, 1990, prior to the effective date of the spawning season adjustment.

Effective May 12, 1990, through September 30, 1990, the meat count standard will remain at 33 MPP with a corresponding 3 3/4 inch (87 mm) shell height standard.

Other Matters

This action is taken under authority of 50 CFR part 650, and complies with Executive Order 12291.

List of Subjects in 50 CFR Part 650

Fisheries, Reporting and recordkeeping requirements.

Dated: May 10, 1990.

Richard H. Schaefer,
Director, Office of Fisheries Conservation and Management, National Marine Fisheries Service.

[FR Doc. 90-11343 Filed 5-11-90; 9:21 am]

BILLING CODE 3510-22-M



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

MEMORANDUM

SUBJECT: Publication of a Correction to the Final Rule for
Designation of an Ocean Disposal Site for Fish
Processing Wastes Produced in American Samoa

FROM: Janet Hashimoto, Acting Chief *Janet Y. Hashimoto*
Wetlands, Oceans and Estuaries Branch (W-7)

TO: Vickie Reed
Information and Regulatory Systems Division
Office of Standards and Regulations (PM-223)

The Regional Administrator has concurred on Region 9's correction to the final rule to designate an ocean disposal site for fish processing wastes generated in American Samoa. I have attached copy of the document and a typesetting request for the cost of publishing the final rule in the Federal Register. We are in the process of preparing two revised special permits for use at this site. Please expedite publication of the final rule and contact Patrick Cotter at (415) 705-2162 to confirm when the notice was published in the Federal Register. Thank you for your assistance in this matter.

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

27 APR 1990

MEMORANDUM

SUBJECT: Publication of a Correction to the Final Rule for Designation of an Ocean Disposal Site for Fish Processing Wastes Produced in American Samoa

FROM: Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch (W-7)

TO: Vickie Reed
Information and Regulatory Systems Division
Office of Standards and Regulations (PM-223)

The Regional Administrator has concurred on Region 9's correction to the final rule to designate an ocean disposal site for fish processing wastes generated in American Samoa. I have attached copy of the document and a typesetting request for the cost of publishing the final rule in the Federal Register. We are in the process of preparing two revised special permits for use at this site. Please expedite publication of the final rule and contact Patrick Cotter at (415) 705-2162 to confirm when the notice was published in the Federal Register. Thank you for your assistance in this matter.

Attachments

CONCURRENCES

SYMBOL	E-4	ORC	W-7				
SURNAME	<i>W. Jones</i>	<i>E. Heinger</i>	<i>J. Hashimoto</i>				
DATE	<i>4/25/90</i>	<i>4/25/90</i>	<i>4/27/90</i>				

ENVIRONMENTAL PROTECTION AGENCY

40 C.F.R. Part 228

**OCEAN DUMPING; FINAL DESIGNATION OF SITE LOCATED OFFSHORE OF
TUTUILA ISLAND, AMERICAN SAMOA**

AGENCY: Environmental Protection Agency

ACTION: Final Rule; Correction.

SUMMARY: The Federal Register publication on February 6, 1990, 55 Fed. Reg. 3948, of the Final Rule to designate an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes is hereby corrected. This correction applies to the preamble to the Final Rule as well as the Final Rule. In both the preamble to the Final Rule and the Final Rule, the center of the disposal site was erroneously designated as being 5.45 nautical miles from land and having a 14° 24.00' South latitude by 170° 38.20' West longitude. The actual longitude of the disposal site, as correctly identified in the Final Environmental Impact Statement (FEIS), dated February 3, 1989, is 170° 38.30' West longitude. In addition, under the heading "E. Regulatory Requirements" in the preamble to the Final Rule, the text erroneously stated that the longshore current is located between Pago Pago Harbor and the **southeastern** end of the island. The current actually flows between Pago Pago Harbor and the **southwestern** end of the island.

DATE: This designation shall become effective when three-year special ocean dumping permits for StarKist Samoa, Inc. and VCS Samoa Packing Company, Inc. are issued.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean

Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

DATED: 5.1.90

John Wise
for

DANIEL W. MCGOVERN

REGIONAL ADMINISTRATOR

REGION IX

U.S. ENVIRONMENTAL PROTECTION AGENCY

In consideration of the foregoing, Subchapter H of Chapter 1 of Title 40 is amended as set forth below.

Part 228 - [Amended]

1. The authority citation for Part 228 continues to read as follows:

Authority: 33 U.S.C. Sections 1412 and 1418.

2. Section 228.12 is amended by amending the following subparagraph to paragraph (b)(74), to read as follows:

Section 228.12 Delegation of management authority for ocean dumping sites.

* * * * *

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site-
Region IX

Location: 14° 24.00' South latitude by 170°

38.30' West longitude (1.5 nautical mile radius).

* * * * *

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ENVIRONMENTAL PROTECTION AGENCY

40 C.F.R. Part 228

**OCEAN DUMPING; FINAL DESIGNATION OF SITE LOCATED OFFSHORE OF
TUTUILA ISLAND, AMERICAN SAMOA**

AGENCY: Environmental Protection Agency

ACTION: Final Rule; Correction.

SUMMARY: The Federal Register publication on February 6, 1990, 55 Fed. Reg. 3948, of the Final Rule to designate an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes is hereby corrected. This correction applies to the preamble to the Final Rule as well as the Final Rule. In both the preamble to the Final Rule and the Final Rule, the center of the disposal site was erroneously designated as being 5.45 nautical miles from land and having a 14° 24.00' South latitude by 170° 38.20' West longitude. The actual longitude of the disposal site, as correctly identified in the Final Environmental Impact Statement (FEIS), dated February 3, 1989, is 170° 38.30' West longitude. In addition, under the heading "E. Regulatory Requirements" in the preamble to the Final Rule, the text erroneously stated that the longshore current is located between Pago Pago Harbor and the **southeastern** end of the island. The current actually flows between Pago Pago Harbor and the **southwestern** end of the island.

DATE: This designation shall become effective when three-year special ocean dumping permits for StarKist Samoa, Inc. and VCS Samoa Packing Company, Inc. are issued.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean

CONCURRENCES

SYMBOL	E-4	E-4	ORC	W-7/W-71	W-1			
SURNAME	<i>[Signature]</i>	<i>Loyche</i>	<i>Ettinger</i>	<i>Washington</i>	<i>K</i>	<i>Jones</i>		
DATE	4/25/90	4/26/90	4/26/90	4/27/90	4-30	5.1.90		

Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

DATED: _____

DANIEL W. McGOVERN

REGIONAL ADMINISTRATOR

REGION IX

U.S. ENVIRONMENTAL PROTECTION AGENCY

In consideration of the foregoing, Subchapter H of Chapter 1 of Title 40 is amended as set forth below.

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* * * * *

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site-
Region IX

Location: 14⁰ 24.00' South latitude by 170⁰

38.30' West longitude (1.5 nautical mile radius).

* * * * *

Telecommunication Union Radio Regulations and the following signals:

Dated: January 3, 1990.

R.T. Nelson,

Rear Admiral, U.S. Coast Guard, Chief, Office of Navigation Safety and Waterway Services.

[FR Doc. 90-2614 Filed 2-5-90; 8:45 am]

BILLING CODE 4910-14-M

33 CFR Part 117

[7-89-59]

Drawbridge Operation Regulations; Atlantic Intracoastal Waterway, Florida

AGENCY: Coast Guard, DOT.

ACTION: Temporary rule.

SUMMARY: At the request of U.S. Congressman Tom Lewis, the Coast Guard is temporarily changing the regulations governing the operation of the PGA and Parker drawbridges at North Palm Beach by extending the hours of the existing regulations to provide draw openings at 30 minute intervals on weekdays. This temporary change is being made to evaluate its effect on peak season vehicular and waterway traffic.

DATES: These temporary regulations become effective on January 2, 1990 and terminate on March 2, 1990.

ADDRESSES: Comments regarding this temporary change should be mailed to Commander (oan), Seventh Coast Guard District, 909 SE. 1st Ave. Miami, FL 33131-3050. Any comments received will be available for inspection and copying in the office of the Bridge Administrator located in room 484 at Brickell Plaza Federal Building, 909 SE. 1st Avenue, Miami, FL. Documents and comments concerning this regulation may be inspected Monday through Friday between 7:30 a.m. and 4 p.m.

FOR FURTHER INFORMATION CONTACT: Walt Paskowsky (305) 536-4103.

SUPPLEMENTARY INFORMATION:

Interested parties submitting written views, comments, data, or arguments should include their names and addresses, identify the bridge, and give reasons for concurrence with or any recommended change to the temporary regulation.

Drafting Information

The drafters of this notice are Walt Paskowsky, project officer, and Lieutenant Commander D.G. Dickman, project attorney.

Discussion of Temporary Regulations

The PGA and Parker bridges presently open on signal, except that from 7 a.m.

to 9 a.m. and 4 p.m. to 7 p.m., Monday through Friday, the PGA opens on the quarter and three quarter hour while Parker opens on the hour and half hour. On weekends and Federal holidays both bridges open on the hour, 20 minutes after the hour, and 40 minutes after the hour between 8 a.m. and 6 p.m. This change adds 30 minute scheduled synchronized openings from 9 a.m. to 4 p.m. on weekdays. Because this is a temporary regulation, it will not appear in the Code of Federal Regulations.

Economic Assessment and Certification

These temporary regulations are considered to be non-major under Executive Order 12291 on Federal Regulation and non-significant under the Department of Transportation regulatory policies and procedures (44 FR 11034; February 28, 1979).

The economic impact of this rule is expected to be so minimal that a full regulatory evaluation is unnecessary. We conclude this because the rule exempts tugs with tows. Since the economic impact of the proposal is expected to be minimal, the Coast Guard certifies that, if adopted, it will not have a significant impact on a substantial number of small entities.

List of Subjects in 33 CFR Part 117

Bridges.

Proposed Regulations

In consideration of the foregoing, the Coast Guard has amended part 117 of title 33, Code of Federal Regulations as follows:

PART 33—[AMENDED]

1. The authority citation for part 117 continues to read as follows:

Authority: 33 U.S.C. 499; 49 CFR 1.46; 33 CFR 1.05-1g.

2. For the period between January 2, 1990 through March 2, 1990, paragraphs (s) and (t) of § 117.261 are revised to read as follows.

Note: This is a temporary rule and will not appear in the Code of Federal Regulations.

§ 117.261 Atlantic Intracoastal Waterway from St. Marys River to Key Largo.

* * * * *

(s) PGA Boulevard bridge, mile 1012.6. The draw shall open on signal; except that from 7 a.m. to 7 p.m., Monday through Friday, except Federal holidays, the draw need open only on the quarter-hour and three-quarter hour. On Saturdays, Sundays and Federal holidays from 8 a.m. to 6 p.m., the draw need open only on the hour, 20 minutes after the hour, and 40 minutes after the hour.

(t) Parker (US 1) bridge, mile 1013.7. The draw shall open on signal; except that from 7 a.m. to 7 p.m., Monday through Friday, except Federal holidays, the draw need open only on the hour and half hour. On Saturdays, Sundays and Federal holidays from 8 a.m. to 6 p.m., the draw need open only on the hour, 20 minutes after the hour, and 40 minutes after the hour.

* * * * *

Dated January 12, 1990.

Martin H. Daniell,

Rear Admiral, U.S. Coast Guard, Commander, Seventh Coast Guard District.

[FR Doc. 90-2562 Filed 2-5-90; 8:45 am]

BILLING CODE 4910-14-M

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 228

[FRL-3719-4]

Ocean Dumping; Designation of Site

AGENCY: Environmental Protection Agency (EPA), Region IX.

ACTION: Final rule.

SUMMARY: EPA Region IX today designates an ocean disposal site located southeast of Tutuila Island, American Samoa, for the disposal of fish processing wastes. The center of the site is 5.45 nautical miles from land (14° 24.00' South latitude by 170° 38.20' West longitude), located in 1,502 fathoms of water, with a radius of 1.5 nautical miles. The fish processing wastes are generated by Star-Kist Samoa, Incorporated and Samoa Packing, Incorporated located in Pago Pago. These are subsidiaries of Star-Kist Foods, Incorporated and Van Camp Seafood Company, Incorporated, respectively.

This action is necessary to provide an acceptable ocean dumping site for the disposal of fish processing wastes from American Samoa canneries (the "canneries"). This final site designation is for an indefinite time. The site is subject to periodic monitoring to insure that unacceptable adverse environmental impacts do not occur. If EPA Region IX determines that unacceptable environmental impacts are occurring at the site, the Regional Administrator may take appropriate action under his authority defined at 40 CFR 228.11. Upon final designation, all other sites previously designated, including the interim Fish Cannery Wastes Site—Region IX listed at 40 CFR 228.12(a)(3), shall be cancelled.

DATES: *Effective date:* February 6, 1990. This designation shall become applicable when three-year special permits for Star-Kist Samoa, Inc. and Samoa Packing, Inc. are issued.

ADDRESSES: Send comments to: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 215 Fremont Street, San Francisco, California 94105. The file supporting this designation and the letters of comment are available for public inspection at the following locations:

1. EPA Public Information Reference Unit (PIRU), Room 2904 (rear), 401 M Street, SW., Washington, DC
2. EPA Region IX, 211 Main Street, San Francisco, California. Call (415) 744-2180 to make special arrangements
3. EPA Pacific Islands Coordination Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii
4. American Samoa Environmental Quality Commission, Pago Pago, American Samoa

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter at the above address, or by telephone at (415) 744-1640.

SUPPLEMENTARY INFORMATION

A. Background

Section 102(c) of the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972, as amended, 33 U.S.C. 1401 *et seq.*, gives the Administrator of EPA the authority to designate sites where ocean dumping may be permitted. On December 23, 1986, EPA's Administrator delegated the authority to designate ocean disposal sites for fish processing wastes to EPA Regional Administrators. This site designation is being made according to that authority.

The EPA Ocean Dumping Regulations (40 CFR chapter 1, subchapter H, § 228.4) state that ocean dumping sites will be designated by publication in part 228. A list of "Approved Interim and Final Ocean Dumping Sites" was published on January 11, 1977 (42 FR 2462 *et seq.*). A fish cannery waste disposal site was designated for American Samoa on November 24, 1980 (45 FR 77435). This site designation was restricted to a three-year period which ended on November 24, 1983. Before the site authorization expired, EPA Region IX issued a letter on August 8, 1983 authorizing the canneries to dispose of the fish processing wastes at the site until a suitable site designation environmental impact statement was prepared by the Agency. After the effective date of this final rule for the fish processing waste disposal site, the

Fish Cannery Wastes Site—Region IX listed at 40 CFR 228.12(a)(3) and any other sites shall be cancelled.

A series of MPRSA section 102 research permits (OD 86-01, OD 87-01, OD 88-01 and OD 88-02) were issued to the canneries. The special conditions and monitoring requirements in these permits have been used to characterize the current disposal site (900-fathom site) during actual disposal operations. Research permits were issued because EPA Region IX determined there was a need to collect scientific information about the impact of this fish processing waste disposal in the environment near American Samoa. Results of the site monitoring program revealed that unacceptable environmental impacts did not occur at the designated ocean disposal site.

On November 18, 1988, the Ocean Dumping Ban Act (ODBA) of 1988 (PL 100-688) was signed. The ODBA excludes waste from the tuna canneries in American Samoa, amended MPRSA section 104B(k)(3)(B), from the prohibition of ocean dumping of industrial wastes after December 31, 1991. EPA administratively extended Research Permit OD 88-02 on March 3, 1989. This was necessary because ODBA banned the use of research permits. The final designation of this ocean dumping site is intended to provide an acceptable location for disposing of fish cannery wastes in the most environmentally sound manner.

Interested persons may participate in this final rulemaking by submitting written comments within 30 days of the date of this publication to the address given above.

B. EIS Development

Section 102(c) of the National Environmental Policy Act of 1969, 42 U.S.C. sections 4321 *et seq.*, (NEPA), requires that Federal agencies prepare environmental impact statements (EIS) on proposals for major Federal actions significantly affecting the quality of the human environment. The object of NEPA is to build into agency decision-making processes careful consideration of all environmental aspects of proposed actions. While NEPA does not apply to EPA activities of this type, EPA has voluntarily committed to prepare EISs in connection with ocean dumping site designations (39 FR 16186, May 7, 1974; as amended by 39 FR 37419, October 24, 1974).

EPA Region IX prepared a Draft EIS entitled "The Designation of an Ocean Disposal Site off Tutuila Island, American Samoa, for Fish Processing Wastes." A notice of availability of the DEIS for public review and comment was

published in the Federal Register (53 FR 38118, September 16, 1988). The public comment period on this DEIS closed on October 31, 1988 after receipt of 11 comment letters. Notification of a Proposed Rule (54 FR 7207, February 17, 1989) and a Final EIS (54 FR 9083, March 3, 1989) were published in the Federal Register. The public comment period for these documents closed on April 3, 1989. EPA Region IX received 6 comment letters during the comment period and 1 comment letter after the close of the comment period.

In addition to the Coastal Zone Management Act coordination discussed below, EPA Region IX has also coordinated with the appropriate agencies on the Endangered Species Act and the National Historic Preservation Act. The agencies responsible for these two programs determined that the site designation would not affect either program. The following substantive comments were discussed in the 7 comment letters:

Comment 1: The American Samoa Economic Development Planning Office requested that EPA obtain a consistency determination from the applicant before the issuance of any permit.

Response 1: The applicant, Star-Kist Foods, requested a coastal consistency determination under section 307(c) of the Coastal Zone Management Act from the American Samoa Economic Planning Office. In a letter dated June 2, 1989, Star-Kist Foods provided a copy of the American Samoa Government's letter (May 8, 1989) certifying that the proposed site designation complied with the approved American Samoa Coastal Zone Management Program.

Comment 2: The EPA, the American Samoa Environmental Protection Agency and the U.S. Coast Guard must ensure that the fish wastes are disposed in the designated area through effective surveillance and a frequent monitoring program.

Response 2: To ensure protection of sensitive marine ecosystems and human health, EPA Region IX has taken the most conservative approach to designation of an appropriate site and selected a site 5.45 nautical miles offshore. The center of the 1,500-fathom site is about 2.75 nautical miles farther offshore than the current 900-fathom site. The special ocean dumping permit that will be issued to each applicant contains restrictions on the disposal site operations and strict reporting requirements. There are also provisions for shipriders to accompany the disposal vessel. Surveillance will be conducted by the U.S. Coast Guard (USCG) and the

American Samoa Environmental Protection Agency (ASEPA), when agency personnel are available.

The monitoring program for the permit is contained in the special conditions of the ocean dumping permit. This level of monitoring is required by EPA to allow the regulatory agencies to determine whether unacceptable environmental impacts are occurring as a result of disposal operations at the designated site. Disposal of the wastes, as defined in the special ocean dumping permit, will insure that the disposed fish wastes do not exceed the limiting permissible concentration at the boundary of the disposal site. The disposal vessel captain will be required to note the presence or absence of the previous disposal plume if a second trip is made to the disposal site on the same day. However, this will be accomplished during the vessel's direct transit to the disposal site; the vessel will not be required to search for the plume.

The special permit will have monthly monitoring requirements for the wastes streams from the permittees' processing facilities. A detailed report discussing the results of monitoring conducted pursuant to the previously issued research permits will be required. In addition to the agencies already receiving copies of the permittees' monitoring reports, the Western Pacific Regional Fishery Management Council will also receive a copy.

Comment 3: Disposal of fish wastes at sea are responsible for attracting sharks into Pago Pago Harbor.

Response 3: Fish wastes permitted under the Ocean Dumping Act have been disposed at a site at least 5 nautical miles south of the mouth of Pago Pago Harbor. It is unlikely that shark activity in Pago Pago Harbor can be attributed to disposal of fish wastes at such a distance from the main harbor.

Comment 4: Consider other alternatives to ocean disposal.

Response 4: EPA Region IX has selected the 1,500-fathom site as the preferred alternative because other land based disposal alternatives did not make the most efficient use of American Samoa's limited resources and the impact on human health from land disposal was considered to be too great compared to ocean disposal. When ODBA was signed in November 1988, the canneries in American Samoa were excluded from the ban on disposal of industrial waste in the ocean if EPA approved ocean disposal.

C. FEIS Alternatives Analysis

The action discussed in the FEIS is designation of an acceptable fish

processing waste disposal site for continued use. The purpose of the designation is to provide an environmentally acceptable location for ocean disposal as specified in 40 CFR part 228 of EPA's Ocean Dumping Regulations. Use of the site will be regulated through the issuance of MPRSA section 102 special permits in compliance with the criteria defined in 40 CFR part 227. Each special permit will last for a maximum of 3 years. EPA Region IX and the American Samoa Environmental Protection Agency will evaluate permit data to determine whether disposal can continue at the site.

Application for each permit will be evaluated individually to determine whether the permittees have provided adequate information to characterize the waste. All monitoring data will be reviewed to determine whether any environmental impacts have occurred as a result of disposal of fish processing wastes at the designated site. If EPA Region IX determines that significant unacceptable impacts have occurred at the site, then the Regional Administrator will re-evaluate the use of the site.

The FEIS discusses the need for the action and examines ocean disposal sites and alternatives to the proposed action. The following alternatives were evaluated in this FEIS:

1. **No Action**—This alternative would prohibit ocean disposal of fish processing wastes. No action would force the canneries to consider one of the following alternatives: (1) Discharge of the wastes into Pago Pago Harbor, or (2) Disposal on land. The options listed for the No Action alternative were determined to be unacceptable solutions because environmental risks were unacceptable and land disposal has been banned by the American Samoa Government.

2. **Other Technological Alternatives**—These alternatives include: centrifuging, belt presses, vacuum filter presses, anaerobic treatment and digestion, production of animal feed, oil recovery, incineration, pulse jet drying, ultrafiltration, and composting. All of these alternatives were examined in the DEIS and found to be unacceptable for disposal of fish processing wastes because they were technically infeasible given the amount of wastes and the land space required for such alternatives.

3. **Current Disposal Site (900-fathom site)**—This site has been used for ocean disposal of fish processing wastes since a research ocean dumping permit (OD 86-01) was issued in 1987. The center of the site was located 2.25 nautical miles from land (14° 22.18' South latitude by 170° 40.87' West longitude) in 910

fathoms of water. This site has been monitored extensively for two years, during 4 research permits. This site was determined unsuitable because projected increase in waste disposal require a larger site and one that is farther from shore to prevent impacts to nearshore ecosystems.

4. **Shallow Water Site**—This site is located 2.3 nautical miles seaward of the entrance to Pago Pago Harbor (14° 20.00' South latitude by 170° 39.30' West longitude) in 120 fathoms of water. The site is very close to the Taema Bank fishing area. It is not considered as a viable alternative for ocean disposal of fish processing wastes because there may be potentially significant impacts to fishing on the bank.

5. **Deeper Water Site (1,500-fathom site)**—The center of the deeper water site defined in the DEIS was moved 0.5 nautical miles farther offshore in the FEIS. Water depth at the center of the site is 1,502 fathoms. This proposal was made by EPA Region IX as a result of comments received on the DEIS and to eliminate potential impacts to nearshore ecosystems. The center of the 1,500-fathom site in the FEIS (14° 24.00' South latitude by 170° 38.20' West longitude) is located about 5.45 nautical miles from land. Major consideration include: the area of the disposal site, containment of the dumping plume within the site given the initial mixing calculations, the proximity of the site to American Samoa territorial waters, the feasibility of monitoring and surveillance, and other specific criteria defined at 40 CFR 228.6(a).

The FEIS presents the information needed to evaluate the suitability of ocean disposal alternatives for final designation which is based on site monitoring studies. The site monitoring studies, waste stream monitoring and final designation are being conducted under MPRSA, the Ocean Dumping Regulations, and other applicable Federal environmental legislation.

This final rulemaking notice fills the same role as the Record of Decision required under regulations promulgated by the Council on Environmental Quality for agencies subject to NEPA.

D. Site Designation

The site designated today by EPA Region IX is the same site selected as the preferred alternative in the February 17, 1989 Federal Register notice: The 1,500-fathom site, located about 5.45 nautical miles offshore. The site occupies an area of about 7.07 square nautical miles. Water depths within the area are approximately 1,502 fathoms (2,746 meters). The coordinates of the

site are as follows: 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. If at any time during the monitoring program required by the MPRSA section 102 special permit, EPA Region IX determines that disposal operations at the site are causing unacceptable adverse impacts, further use of the site will be restricted or ended. EPA anticipates that use of the site will not cause significant unacceptable environmental impacts as a result of disposal of fish processing wastes. The environmental impact of the disposal operations will be evaluated on a quarterly basis when the permit monitoring data is provided to EPA Region IX.

E. Regulatory Requirements

Selection and approval of ocean disposal sites for continuing use is evaluated first for compliance with 5 general site selection criteria. A site is selected to minimize interference with other marine activities, to keep any temporary dumping perturbations from causing impacts outside the disposal site, and to permit effective monitoring for detection of any adverse impacts at an early stage. Where feasible, locations off the continental shelf and sites with historical use are chosen. If disposal operations at a site cause unacceptable adverse impacts, the use of that site will be ended as soon as a suitable alternate disposal site can be designated. The 5 general criteria are given in § 228.5 of the EPA Ocean Dumping Regulations, and § 228.6(a) lists 11 specific factors used in evaluating a disposal site to assure that the general criteria are met.

EPA has determined that the site meets the 5 general ocean dumping criteria. Historical use of the 900-fathom site has not resulted in substantially adverse effects to living resources of the ocean or to other uses of the marine environment. The 1,500-fathom site is expected to have similar effects on marine resources about 2.75 nautical miles southeast of the 900-fathom site.

The characteristics of the 1,500-fathom site are reviewed below for compliance with the 11 specific ocean dumping criteria.

1. *Geographical position, depth of water, bottom topography and distance from the coast*, 40 CFR 228.6(a)(1). The 1,500-fathom site is located about 5.45 nautical miles (9.2 kilometers) from shore at a depth of approximately 1,502 fathoms (2,748 meters). The bottom topography of the dump site slopes sharply from 1,200 fathoms in the northwest quadrant to depths more than 1,502 fathoms (NOAA Chart 83434). Since the fish processing waste disposal

plume is buoyant, no sediment samples have been taken because benthic impacts are not expected at the site.

2. *Location in relation to breeding, spawning, nursery, feeding, or passage areas of living resources in adult or juvenile phases*, 40 CFR 228.6(a)(2). There are no known breeding, spawning or nursery uses of the 1,500-fathom site. The species in the vicinity of the site are pelagic fish species that are harvested commercially, and species of marine birds and cetaceans that are seen infrequently near the site.

3. *Location in relation to beaches and other amenity areas*, 40 CFR 228.6(a)(3). The 1,500-fathom site is 5.45 nautical miles from the nearest shoreline. EPA Region IX has determined that visual impacts of plumes, transport of dredged material to any shoreline and alteration of any habitat of special biological significance or marine sanctuary will not occur if this site is designated.

Comments received on the DEIS say that the plume from the 900-fathom site may have moved close to shore on rare occasions. These reports included sightings and detection of odors associated with the waste. As a result of these reports, EPA Region IX has moved the center of the disposal site farther offshore and increased the radius of the site to contain the plume as shown by mathematical model runs in the FEIS.

The special permits that will be issued for the site will require that the disposal vessel captain conduct all disposal operations in the upcurrent quadrant of the site. This will reduce the possibility of the discharge plume moving into sensitive marine habitats or near the shore.

4. *Types and quantities of wastes proposed to be disposed of, and proposed methods of release, including methods of packing the waste if any*, 40 CFR 228.6(a)(4). Actual disposal of DAF sludge has been about 48,000 gallons per day. The average monthly disposal of authorized wastes from both canneries has been about 880,000 gallons since the research permits were issued in 1987. The canneries propose to dispose of the following fish processing wastes at the disposal site: 91,400 gallons/day of dissolved air flotation (DAF) sludge, 113,300 gallons/day of precooker water, and 52,200 gallons/day of presswater. These amounts are proposed for disposal on a daily basis in the event that delays in daily disposal operations occur. If delays in disposal occur, the wastes will be stored until conditions for disposal are acceptable. At that time it is possible that additional disposal trips will be scheduled to empty the storage tanks. Future disposal operations may increase if precooker

water and press water must be dumped at sea after National Pollutant Discharge Elimination System (NPDES) permits impose stricter limits on waste discharges in Pago Pago Harbor.

The wastes will be transported via a dumping vessel with 24,000 gallon tanks. After modifications, the vessel could carry up to 100,000 gallons of waste per trip for disposal at the site. The disposal of the wastes will occur at a location 1.2 nautical miles upcurrent from the center of the site at a rate of 140 gallons per minute per knot, not to exceed 1400 gallons per minute at a maximum speed of 10 knots within a 0.2 nautical mile circle.

5. *Feasibility of surveillance and monitoring*, 40 CFR 228.6(a)(5). The EPA, the USCG and the ASEPA may conduct spot surveillance of disposal activities at the site, and they may inspect the disposal vessel for compliance with USCG regulations and the permits. EPA Region IX and ASEPA will assist the USCG within the limits of their jurisdiction.

Waste stream and plume monitoring will be key factors in the site monitoring program. The monitoring program will be established to answer several questions including: composition of wastes disposed at the site during the term of the permit, the area affected by the disposal plume, movement of the disposal plume toward land and areas of special biological significance, disposal model verification, and potential impacts on commercial and recreational fisheries. If significantly adverse impacts are detected at the site, the site management plan will be flexible enough to allow for appropriate action.

6. *Dispersal, horizontal transport and vertical mixing characteristics of the area, including prevailing current direction and velocity, if any*, 40 CFR 228.6(a)(6). Water currents in the vicinity of the 1,500-fathom site are variable but move parallel to shore in a west-southwest direction. Surface current speeds average between 0.16 and 0.67 knots. During storm events, greater surface current speeds occur. Vertical mixing to a depth of approximately 20 meters has been documented at the disposal site; however, the surface waters off American Samoa are strongly stratified and deeper mixing is not expected below the permanent thermocline.

The prevailing winds, oceanic currents, shoaling effects of the reefs and the configuration of the island contribute to a persistent longshore current between Pago Pago Harbor and the southeastern point of the island.

This current minimizes the possibility of the waste plume affecting nearshore reef areas. To further reduce the possibility of nearshore impacts, EPA Region IX has selected the 1,500-fathom site which is 5.45 nautical miles from shore.

7. *Existence and effects of current and previous discharges and dumping in the area (including cumulative effects)*, 40 CFR 228.6(a)(7). Disposal of fish processing wastes has been permitted at two locations near the 1,500-fathom site since September 1980. An average of about 860,000 gallons per month has been discharged at these sites since the first research permit was issued. Detailed field monitoring at the 900-fathom site, under 4 research permits, has not shown any unacceptable or cumulative environmental impacts since February 1987. Impacts on the water column during disposal operations are considered to be minimal and temporary. The potential for cumulative effects, also considered to be minimal at the 1,500-fathom site, will be assessed in the monitoring program as a major requirement of the MPRSA section 102 special permits.

8. *Interference with shipping, fishing, recreation, mineral extraction, desalination, fish and shellfish culture, areas of special scientific importance and other legitimate uses of the ocean*, 40 CFR 228.6(a)(8). Interference with shipping and fishing is minimal because vessel traffic in the vicinity of the disposal site is extremely low. To minimize effects on nearshore habitats and fish aggregation devices placed near the island, EPA Region IX has selected the 1,500-fathom site as the preferred alternative. There are no other uses of the ocean that could be affected by disposal of wastes at the 1,500-fathom site.

9. *The existing water quality and ecology of the site as determined by available data or by trend assessment or baseline surveys*, 40 CFR 228.6(a)(9). The oceanic water quality is considered to be excellent with regard to the concentration of nutrients and other compounds at the 1,500-fathom site. The size of the site has been enlarged to a radius of 1.5 nautical miles to contain any discharge plume within the boundaries. Water quality outside the site boundary is not expected to be affected by disposal of fish processing wastes.

The community of pelagic invertebrates in the vicinity of the 1,500-fathom site is dominated by large cephalopod mollusks of the genus *Nautilus*. Recent studies have shown that they may be food for large carnivores. Impacts on these highly

motile invertebrates are expected to be very small.

Pelagic fish caught in the vicinity of the 1,500-fathom site include skipjack (*Katsuwonus pelamis*) and yellowfin tuna (*Thunnus albacares*) which are fished commercially throughout the tropical South Pacific Ocean. Other important sport and commercial fish species are marlin (*Makaira* spp.), sailfish (*Istiophorus platypterus*), dolphin fish (*Coryphaena* spp.), wahoo (*Acanthocyprium solandri*) and kawakawa (*Euthynnus affinis*). These species are migratory and they avoid areas of turbid water. No impacts are expected on these fish species. No impacts are expected on coastal birds, cetaceans or any endangered species in the vicinity of the 1,500-fathom site.

10. *Potentiality for the development or recruitment of nuisance species in the disposal site*, 40 CFR 228.6(a)(10). Recruitment of nuisance species, such as sharks, in the vicinity of the disposal site is not expected. Sharks have been observed near the fish attractant device south of the island and in Pago Pago Harbor feeding on small fish. If a school of small prey fish were attracted to the waste plume, the sharks may pursue them. However, disposal of fish processing wastes at the current site has not caused an increase in the offshore shark population.

11. *Existence at or in close proximity to the site of any significant natural or cultural feature of historical importance*, 40 CFR 228.6(a)(11). There are no known shipwrecks or any known aboriginal artifacts in the vicinity of the 1,500-fathom site.

F. Action

EPA Region IX has concluded that the 1,500-fathom site, evaluated in the FEIS, may be designated for continued use. The 1,500-fathom site is compatible with the 5 general criteria and 11 specific criteria used by EPA for site evaluation. Designation of the 1,500-fathom site as an approved EPA Ocean Dumping Site is being published as final rulemaking. Management of this site will be the responsibility of the Regional Administrator of EPA Region IX. The monitoring program, required as part of the MPRSA section 102 special permits, will be conducted by the permittees.

Designation of an ocean dumping site by EPA Region IX does not constitute or imply EPA Region IX's approval of actual ocean disposal of materials. Before ocean dumping of fish processing waste begins, EPA Region IX must evaluate each permit application according to the ocean dumping criteria. EPA Region IX has the right to disapprove the actual dumping, if

environmental concerns under MPRSA have not been met.

G. Regulatory Assessments

Under the Regulatory Flexibility Act, EPA is required to perform a Regulatory Flexibility Analysis for all rules which may have a significant impact on a substantial number of small entities. EPA has determined that this action will not have a significant impact on small entities since the site designation will only have the effect of providing a disposal site for fish processing wastes generated in Pago Pago, American Samoa. This action will not result in an annual effect on the economy of \$100 million or more or cause any of the effects which would result in its being classified by the Executive Order as a major rule. Therefore, this proposed rule does not necessitate preparation of a Regulatory Impact Analysis.

The Final Rule does not contain any requirements to collect information that are subject to Office of Management and Budget review under the Paperwork Reduction Act of 1980, 44 U.S.C. sections 3501 *et seq.*

List of Subjects in 40 CFR Part 228

Water pollution control.

Dated: January 25, 1990.

Daniel W. McGovern,

Regional Administrator for Region IX.

In consideration of the foregoing, subchapter H of chapter 1 of title 40 is amended as set forth below.

PART 228—[AMENDED]

1. The authority citation for part 228 continues to read as follows:

Authority: 33 U.S.C. sections 1412 and 1418.

2. Section 228.12 is amended by adding paragraph (b)(74) to read as follows:

§ 228.12 Delegation of management authority for interim ocean dumping sites.

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site, American Samoa Fish Processing Waste Disposal Site—Region IX.

Location: 14° 24.00' South latitude by 170° 38.20' West longitude (1.5 nautical mile radius).

Size: 7.07 square nautical miles.

Depth: 1,502 fathoms (2,746 meters or 9,012 feet).

Primary Use: Disposal of fish processing wastes.

Period of Use: Continued use.

Restrictions: Disposal shall be limited to dissolved air flotation (DAF) sludge, presswater, and precooker water

produced as a result of fish processing operations at fish canneries generated in American Samoa.

[FR Doc. 90-2440 Filed 2-5-90; 8:45 am]

BILLING CODE 6560-50-M

GENERAL SERVICES ADMINISTRATION

Federal Supply Service

41 CFR Part 101-49

[FPMR Amdt. H-175]

Utilization, Donation, and Disposal of Foreign Gifts and Decorations

AGENCY: Federal Supply Service, GSA.

ACTION: Final rule.

SUMMARY: This amendment redefines "minimal value" for foreign gifts based on the increase in the Department of Labor Consumer Price Index report of September 30, 1989. Public Law 95-105 requires that "minimal value" be redefined at 3-year intervals to reflect changes in the consumer price index for the immediately preceding 3-year period. This final rule redefines "minimal value."

EFFECTIVE DATE: January 1, 1990.

FOR FURTHER INFORMATION CONTACT: Stanley M. Duda, Director, Property Management Division (703-557-1240).

SUPPLEMENTARY INFORMATION: The General Services Administration has determined that this rule is not a major rule for the purposes of Executive Order 12291 of February 17, 1981, because it is not likely to result in an annual effect on the economy of \$100 million or more; a major increase in costs to consumers or others; or significant adverse effects. The General Services Administration has based all administrative decisions underlying this rule on adequate information concerning the need for and consequences of this rule; has determined that the potential benefits to society from this rule outweigh the potential costs and has maximized the net benefits; and has chosen the alternative approach involving the least net cost to society.

List of Subjects in 41 CFR Part 101-49

Foreign gifts and decorations, medals, awards, Foreign relations, Government property, Government property management.

Accordingly, 41 CFR part 101-49 is amended as follows:

PART 101-49—UTILIZATION, DONATION, AND DISPOSAL OF FOREIGN GIFTS AND DECORATIONS

1. The authority citation for part 101-49 continues to read as follows:

Authority: Sec. 205(c), 63 Stat. 390 (40 U.S.C. 486(c)); sec. 515, 91 Stat. 862 (5 U.S.C. 7342).

2. Section 101-49.001-5 is amended by revising the introductory statement to read as follows:

§ 101-49.001-5 Minimal value.

"Minimal value" means a retail value in the United States at the time of acceptance of \$200 or less, except that:

Dated: January 18, 1990.

Richard G. Austin,

Acting Administrator of General Services.

[FR Doc. 90-2664 Filed 2-5-90; 8:45 am]

BILLING CODE 6820-24-M

DEPARTMENT OF THE INTERIOR

Bureau of Land Management

43 CFR 5450

[AA-230-08-6310-02; Circular No. 2622]

RIN 1004-AB49

Sales of Forest Products

AGENCY: Bureau of Land Management, Interior.

ACTION: Final rulemaking.

SUMMARY: This rulemaking amends provisions of the existing regulations in 43 CFR part 5450, Award of Contract; General, to reduce the risk of default on timber sale contracts. The potential exists for Bureau of Land Management (BLM) timber sale contracts to be defaulted by purchasers who are not able to or choose not to complete the contracts by their expiration dates. Such defaults create forest management problems and reduce timber revenues to the Federal Treasury and local governments. This rulemaking requires additional security from purchasers of new sales where the purchaser has defaulted on a past sale contract and has not paid or bonded for the damages associated with the defaulted sale. The increased security reduces the Government's risk from non-performance by defaulters, increases the likelihood that all purchasers will complete their timber sale contracts on time, and provides an alternative remedy to debarment in cases of default. This rulemaking supplements the existing pre-award qualification rule which requires the authorized officer of

the BLM to determine whether the high bidder is qualified or responsible to perform the obligations of the contract. In addition to the authorized officer's existing duty to assess the high bidder's qualification in terms of having contractor status, financial capability, skill, and ability, this rulemaking gives the authorized officer the basis to deal with the high bidder's responsibility as demonstrated by performance on past contracts.

EFFECTIVE DATE: March 8, 1990.

ADDRESSES: Inquiries or suggestions may be sent to: Director (230), Bureau of Land Management, Room 909 Premier Bldg., Department of the Interior, Washington, DC 20240.

FOR FURTHER INFORMATION CONTACT: Richard Bird, (202) 653-8864.

SUPPLEMENTARY INFORMATION: Current regulations at 43 CFR 5450.1(a) authorize the authorized officer to require a high bidder to provide such information as is necessary to determine the ability of the bidder to perform the obligations of the contract. Defaulting on past contracts indicates that the purchaser may not be capable of meeting or may willfully disregard contractual obligations. Regardless of the reason, a likelihood of failure to perform new contractual obligations is unacceptable to the United States, and presents the need for additional security against such failure in appropriate circumstances.

Failure to perform, or default on, Federal sale contracts impairs the land management ability of the Federal Government, reduces local and Federal revenue, and affects other timber purchase companies. Reoffering defaulted timber sales interrupts the orderly offering of timber sales in the same vicinity by requiring the adjustment and repetition of actions already completed. Efficient reforestation is complicated by the uncertain timing associated with potential default and resale. The determination of cumulative environmental impacts is increased because of the passage of time. The collection of receipts shared by the United States and local government is delayed and the actual amount collected may be reduced. The United States is put in the uncertain position of not knowing whether the defaulter is either able or willing to complete other contracts.

Under law, defaulted timber sales sold prior to January 1, 1982, are reoffered for sale as a part of rather than in addition to the normal timber sale program. This results in reduced inventories of timber held by timber

Telecommunication Union Radio Regulations and the following signals:

Dated: January 3, 1990.

R.T. Nelson,

Rear Admiral, U.S. Coast Guard, Chief, Office of Navigation Safety and Waterway Services.

[FR Doc. 90-2814 Filed 2-5-90; 8:45 am]

BILLING CODE 4910-14-M

33 CFR Part 117

[7-89-59]

Drawbridge Operation Regulations; Atlantic Intracoastal Waterway, Florida

AGENCY: Coast Guard, DOT.

ACTION: Temporary rule.

SUMMARY: At the request of U.S. Congressman Tom Lewis, the Coast Guard is temporarily changing the regulations governing the operation of the PGA and Parker drawbridges at North Palm Beach by extending the hours of the existing regulations to provide draw openings at 30 minute intervals on weekdays. This temporary change is being made to evaluate its effect on peak season vehicular and waterway traffic.

DATES: These temporary regulations become effective on January 2, 1990 and terminate on March 2, 1990.

ADDRESSES: Comments regarding this temporary change should be mailed to Commander (oan), Seventh Coast Guard District, 909 SE. 1st Ave. Miami, FL 33131-3050. Any comments received will be available for inspection and copying in the office of the Bridge Administrator located in room 484 at Brickell Plaza Federal Building, 909 SE. 1st Avenue, Miami, FL. Documents and comments concerning this regulation may be inspected Monday through Friday between 7:30 a.m. and 4 p.m.

FOR FURTHER INFORMATION CONTACT: Walt Paskowsky (305) 538-4103.

SUPPLEMENTARY INFORMATION:

Interested parties submitting written views, comments, data, or arguments should include their names and addresses, identify the bridge, and give reasons for concurrence with or any recommended change to the temporary regulation.

Drafting Information

The drafters of this notice are Walt Paskowsky, project officer, and Lieutenant Commander D.G. Dickman, project attorney.

Discussion of Temporary Regulations

The PGA and Parker bridges presently open on signal, except that from 7 a.m.

to 9 a.m. and 4 p.m. to 7 p.m., Monday through Friday, the PGA opens on the quarter and three quarter hour while Parker opens on the hour and half hour. On weekends and Federal holidays both bridges open on the hour, 20 minutes after the hour, and 40 minutes after the hour between 8 a.m. and 6 p.m. This change adds 30 minute scheduled synchronized openings from 9 a.m. to 4 p.m. on weekdays. Because this is a temporary regulation, it will not appear in the Code of Federal Regulations.

Economic Assessment and Certification

These temporary regulations are considered to be non-major under Executive Order 12291 on Federal Regulation and non-significant under the Department of Transportation regulatory policies and procedures (44 FR 11034; February 28, 1979).

The economic impact of this rule is expected to be so minimal that a full regulatory evaluation is unnecessary. We conclude this because the rule exempts tugs with tows. Since the economic impact of the proposal is expected to be minimal, the Coast Guard certifies that, if adopted, it will not have a significant impact on a substantial number of small entities.

List of Subjects in 33 CFR Part 117

Bridges.

Proposed Regulations

In consideration of the foregoing, the Coast Guard has amended part 117 of title 33, Code of Federal Regulations as follows:

PART 33—[AMENDED]

1. The authority citation for part 117 continues to read as follows:

Authority: 33 U.S.C. 499; 49 CFR 1.48; 33 CFR 1.05-1g.

2. For the period between January 2, 1990 through March 2, 1990, paragraphs (s) and (t) of § 117.261 are revised to read as follows.

Note: This is a temporary rule and will not appear in the Code of Federal Regulations.

§ 117.261 Atlantic Intracoastal Waterway from St. Marys River to Key Largo.

(s) PGA Boulevard bridge, mile 1012.6. The draw shall open on signal; except that from 7 a.m. to 7 p.m., Monday through Friday, except Federal holidays, the draw need open only on the quarter-hour and three-quarter hour. On Saturdays, Sundays and Federal holidays from 8 a.m. to 6 p.m., the draw need open only on the hour, 20 minutes after the hour, and 40 minutes after the hour.

(t) Parker (US 1) bridge, mile 1013.7. The draw shall open on signal; except that from 7 a.m. to 7 p.m., Monday through Friday, except Federal holidays, the draw need open only on the hour and half hour. On Saturdays, Sundays and Federal holidays from 8 a.m. to 6 p.m., the draw need open only on the hour, 20 minutes after the hour, and 40 minutes after the hour.

Dated January 12, 1990.

Martin H. Daniell,

Rear Admiral, U.S. Coast Guard, Commander, Seventh Coast Guard District.

[FR Doc. 90-2562 Filed 2-5-90; 8:45 am]

BILLING CODE 4910-14-M

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 228

[FRL-3719-4]

Ocean Dumping; Designation of Site

AGENCY: Environmental Protection Agency (EPA), Region IX.

ACTION: Final rule.

SUMMARY: EPA Region IX today designates an ocean disposal site located southeast of Tutuila Island, American Samoa, for the disposal of fish processing wastes. The center of the site is 5.45 nautical miles from land (14° 24.00' South latitude by 170° 38.20' West longitude), located in 1,502 fathoms of water, with a radius of 1.5 nautical miles. The fish processing wastes are generated by Star-Kist Samoa, Incorporated and Samoa Packing, Incorporated located in Pago Pago. These are subsidiaries of Star-Kist Foods, Incorporated and Van Camp Seafood Company, Incorporated, respectively.

This action is necessary to provide an acceptable ocean dumping site for the disposal of fish processing wastes from American Samoa canneries (the "canneries"). This final site designation is for an indefinite time. The site is subject to periodic monitoring to insure that unacceptable adverse environmental impacts do not occur. If EPA Region IX determines that unacceptable environmental impacts are occurring at the site, the Regional Administrator may take appropriate action under his authority defined at 40 CFR 228.11. Upon final designation, all other sites previously designated, including the interim Fish Cannery Wastes Site—Region IX listed at 40 CFR 228.12(a)(3), shall be cancelled.

DATES: *Effective date:* February 6, 1990. This designation shall become applicable when three-year special permits for Star-Kist Samoa, Inc. and Samoa Packing, Inc. are issued.

ADDRESSES: Send comments to: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 215 Fremont Street, San Francisco, California 94105. The file supporting this designation and the letters of comment are available for public inspection at the following locations:

1. EPA Public Information Reference Unit (PIRU), Room 2904 (rear), 401 M Street, SW., Washington, DC
2. EPA Region IX, 211 Main Street, San Francisco, California. Call (415) 744-2180 to make special arrangements
3. EPA Pacific Islands Coordination Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii
4. American Samoa Environmental Quality Commission, Pago Pago, American Samoa

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter at the above address, or by telephone at (415) 744-1640.

SUPPLEMENTARY INFORMATION

A. Background

Section 102(c) of the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972, as amended, 33 U.S.C. 1401 *et seq.*, gives the Administrator of EPA the authority to designate sites where ocean dumping may be permitted. On December 23, 1986, EPA's Administrator delegated the authority to designate ocean disposal sites for fish processing wastes to EPA Regional Administrators. This site designation is being made according to that authority.

The EPA Ocean Dumping Regulations (40 CFR chapter 1, subchapter H, § 228.4) state that ocean dumping sites will be designated by publication in part 228. A list of "Approved Interim and Final Ocean Dumping Sites" was published on January 11, 1977 (42 FR 2462 *et seq.*). A fish cannery waste disposal site was designated for American Samoa on November 24, 1980 (45 FR 77435). This site designation was restricted to a three-year period which ended on November 24, 1983. Before the site authorization expired, EPA Region IX issued a letter on August 8, 1983 authorizing the canneries to dispose of the fish processing wastes at the site until a suitable site designation environmental impact statement was prepared by the Agency. After the effective date of this final rule for the fish processing waste disposal site, the

Fish Cannery Wastes Site—Region IX listed at 40 CFR 228.12(a)(3) and any other sites shall be cancelled.

A series of MPRSA section 102 research permits (OD 86-01, OD 87-01, OD 88-01 and OD 88-02) were issued to the canneries. The special conditions and monitoring requirements in these permits have been used to characterize the current disposal site (900-fathom site) during actual disposal operations. Research permits were issued because EPA Region IX determined there was a need to collect scientific information about the impact of this fish processing waste disposal in the environment near American Samoa. Results of the site monitoring program revealed that unacceptable environmental impacts did not occur at the designated ocean disposal site.

On November 18, 1988, the Ocean Dumping Ban Act (ODBA) of 1988 (PL 100-688) was signed. The ODBA excludes waste from the tuna canneries in American Samoa, amended MPRSA section 104B(k)(3)(B), from the prohibition of ocean dumping of industrial wastes after December 31, 1991. EPA administratively extended Research Permit OD 88-02 on March 3, 1989. This was necessary because ODBA banned the use of research permits. The final designation of this ocean dumping site is intended to provide an acceptable location for disposing of fish cannery wastes in the most environmentally sound manner.

Interested persons may participate in this final rulemaking by submitting written comments within 30 days of the date of this publication to the address given above.

B. EIS Development

Section 102(c) of the National Environmental Policy Act of 1969, 42 U.S.C. sections 4321 *et seq.*, (NEPA), requires that Federal agencies prepare environmental impact statements (EIS) on proposals for major Federal actions significantly affecting the quality of the human environment. The object of NEPA is to build into agency decision-making processes careful consideration of all environmental aspects of proposed actions. While NEPA does not apply to EPA activities of this type, EPA has voluntarily committed to prepare EISs in connection with ocean dumping site designations (39 FR 16186, May 7, 1974; as amended by 39 FR 37419, October 24, 1974).

EPA Region IX prepared a Draft EIS entitled "The Designation of an Ocean Disposal Site off Tutila Island, American Samoa, for Fish Processing Wastes." A notice of availability of the DEIS for public review and comment was

published in the Federal Register (53 FR 38118, September 16, 1988). The public comment period on this DEIS closed on October 31, 1988 after receipt of 11 comment letters. Notification of a Proposed Rule (54 FR 7207, February 17, 1989) and a Final EIS (54 FR 9083, March 3, 1989) were published in the Federal Register. The public comment period for these documents closed on April 3, 1989. EPA Region IX received 6 comment letters during the comment period and 1 comment letter after the close of the comment period.

In addition to the Coastal Zone Management Act coordination discussed below, EPA Region IX has also coordinated with the appropriate agencies on the Endangered Species Act and the National Historic Preservation Act. The agencies responsible for these two programs determined that the site designation would not affect either program. The following substantive comments were discussed in the 7 comment letters:

Comment 1: The American Samoa Economic Development Planning Office requested that EPA obtain a consistency determination from the applicant before the issuance of any permit.

Response 1: The applicant, Star-Kist Foods, requested a coastal consistency determination under section 307(c) of the Coastal Zone Management Act from the American Samoa Economic Planning Office. In a letter dated June 2, 1989, Star-Kist Foods provided a copy of the American Samoa Government's letter (May 8, 1989) certifying that the proposed site designation complied with the approved American Samoa Coastal Zone Management Program.

Comment 2: The EPA, the American Samoa Environmental Protection Agency and the U.S. Coast Guard must ensure that the fish wastes are disposed in the designated area through effective surveillance and a frequent monitoring program.

Response 2: To ensure protection of sensitive marine ecosystems and human health, EPA Region IX has taken the most conservative approach to designation of an appropriate site and selected a site 5.45 nautical miles offshore. The center of the 1,500-fathom site is about 2.75 nautical miles farther offshore than the current 900-fathom site. The special ocean dumping permit that will be issued to each applicant contains restrictions on the disposal site operations and strict reporting requirements. There are also provisions for shipriders to accompany the disposal vessel. Surveillance will be conducted by the U.S. Coast Guard (USCG) and the

American Samoa Environmental Protection Agency (ASEPA), when agency personnel are available.

The monitoring program for the permit is contained in the special conditions of the ocean dumping permit. This level of monitoring is required by EPA to allow the regulatory agencies to determine whether unacceptable environmental impacts are occurring as a result of disposal operations at the designated site. Disposal of the wastes, as defined in the special ocean dumping permit, will insure that the disposed fish wastes do not exceed the limiting permissible concentration at the boundary of the disposal site. The disposal vessel captain will be required to note the presence or absence of the previous disposal plume if a second trip is made to the disposal site on the same day. However, this will be accomplished during the vessel's direct transit to the disposal site; the vessel will not be required to search for the plume.

The special permit will have monthly monitoring requirements for the wastes streams from the permittees' processing facilities. A detailed report discussing the results of monitoring conducted pursuant to the previously issued research permits will be required. In addition to the agencies already receiving copies of the permittees' monitoring reports, the Western Pacific Regional Fishery Management Council will also receive a copy.

Comment 3: Disposal of fish wastes at sea are responsible for attracting sharks into Pago Pago Harbor.

Response 3: Fish wastes permitted under the Ocean Dumping Act have been disposed at a site at least 5 nautical miles south of the mouth of Pago Pago Harbor. It is unlikely that shark activity in Pago Pago Harbor can be attributed to disposal of fish wastes at such a distance from the main harbor.

Comment 4: Consider other alternatives to ocean disposal.

Response 4: EPA Region IX has selected the 1,500-fathom site as the preferred alternative because other land based disposal alternatives did not make the most efficient use of American Samoa's limited resources and the impact on human health from land disposal was considered to be too great compared to ocean disposal. When ODBA was signed in November 1988, the canneries in American Samoa were excluded from the ban on disposal of industrial waste in the ocean if EPA approved ocean disposal.

C. FEIS Alternatives Analysis

The action discussed in the FEIS is designation of an acceptable fish

processing waste disposal site for continued use. The purpose of the designation is to provide an environmentally acceptable location for ocean disposal as specified in 40 CFR part 228 of EPA's Ocean Dumping Regulations. Use of the site will be regulated through the issuance of MPRSA section 102 special permits in compliance with the criteria defined in 40 CFR part 227. Each special permit will last for a maximum of 3 years. EPA Region IX and the American Samoa Environmental Protection Agency will evaluate permit data to determine whether disposal can continue at the site.

Application for each permit will be evaluated individually to determine whether the permittees have provided adequate information to characterize the waste. All monitoring data will be reviewed to determine whether any environmental impacts have occurred as a result of disposal of fish processing wastes at the designated site. If EPA Region IX determines that significant unacceptable impacts have occurred at the site, then the Regional Administrator will re-evaluate the use of the site.

The FEIS discusses the need for the action and examines ocean disposal sites and alternatives to the proposed action. The following alternatives were evaluated in this FEIS:

1. *No Action*—This alternative would prohibit ocean disposal of fish processing wastes. No action would force the canneries to consider one of the following alternatives: (1) Discharge of the wastes into Pago Pago Harbor, or (2) Disposal on land. The options listed for the No Action alternative were determined to be unacceptable solutions because environmental risks were unacceptable and land disposal has been banned by the American Samoa Government.

2. *Other Technological Alternatives*—These alternatives include: centrifuging, belt presses, vacuum filter presses, anaerobic treatment and digestion, production of animal feed, oil recovery, incineration, pulse jet drying, ultrafiltration, and composting. All of these alternatives were examined in the DEIS and found to be unacceptable for disposal of fish processing wastes because they were technically infeasible given the amount of wastes and the land space required for such alternatives.

3. *Current Disposal Site (900-fathom site)*—This site has been used for ocean disposal of fish processing wastes since a research ocean dumping permit (OD 86-01) was issued in 1987. The center of the site was located 2.25 nautical miles from land (14° 22.18' South latitude by 170° 40.87' West longitude) in 910

fathoms of water. This site has been monitored extensively for two years, during 4 research permits. This site was determined unsuitable because projected increase in waste disposal require a larger site and one that is farther from shore to prevent impacts to nearshore ecosystems.

4. *Shallow Water Site*—This site is located 2.3 nautical miles seaward of the entrance to Pago Pago Harbor (14° 20.60' South latitude by 170° 39.30' West longitude) in 120 fathoms of water. The site is very close to the Taema Bank fishing area. It is not considered as a viable alternative for ocean disposal of fish processing wastes because there may be potentially significant impacts to fishing on the bank.

5. *Deeper Water Site (1,500-fathom site)*—The center of the deeper water site defined in the DEIS was moved 0.5 nautical miles farther offshore in the FEIS. Water depth at the center of the site is 1,502 fathoms. This proposal was made by EPA Region IX as a result of comments received on the DEIS and to eliminate potential impacts to nearshore ecosystems. The center of the 1,500-fathom site in the FEIS (14° 24.00' South latitude by 170° 38.20' West longitude) is located about 5.45 nautical miles from land. Major consideration include: the area of the disposal site, containment of the dumping plume within the site given the initial mixing calculations, the proximity of the site to American Samoa territorial waters, the feasibility of monitoring and surveillance, and other specific criteria defined at 40 CFR 228.6(a).

The FEIS presents the information needed to evaluate the suitability of ocean disposal alternatives for final designation which is based on site monitoring studies. The site monitoring studies, waste stream monitoring and final designation are being conducted under MPRSA, the Ocean Dumping Regulations, and other applicable Federal environmental legislation.

This final rulemaking notice fills the same role as the Record of Decision required under regulations promulgated by the Council on Environmental Quality for agencies subject to NEPA.

D. Site Designation

The site designated today by EPA Region IX is the same site selected as the preferred alternative in the February 17, 1989 Federal Register notice: The 1,500-fathom site, located about 5.45 nautical miles offshore. The site occupies an area of about 7.07 square nautical miles. Water depths within the area are approximately 1,502 fathoms (2,746 meters). The coordinates of the

site are as follows: 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. If at any time during the monitoring program required by the MPRSA section 102 special permit, EPA Region IX determines that disposal operations at the site are causing unacceptable adverse impacts, further use of the site will be restricted or ended. EPA anticipates that use of the site will not cause significant unacceptable environmental impacts as a result of disposal of fish processing wastes. The environmental impact of the disposal operations will be evaluated on a quarterly basis when the permit monitoring data is provided to EPA Region IX.

E. Regulatory Requirements

Selection and approval of ocean disposal sites for continuing use is evaluated first for compliance with 5 general site selection criteria. A site is selected to minimize interference with other marine activities, to keep any temporary dumping perturbations from causing impacts outside the disposal site, and to permit effective monitoring for detection of any adverse impacts at an early stage. Where feasible, locations off the continental shelf and sites with historical use are chosen. If disposal operations at a site cause unacceptable adverse impacts, the use of that site will be ended as soon as a suitable alternate disposal site can be designated. The 5 general criteria are given in § 228.5 of the EPA Ocean Dumping Regulations, and § 228.6(a) lists 11 specific factors used in evaluating a disposal site to assure that the general criteria are met.

EPA has determined that the site meets the 5 general ocean dumping criteria. Historical use of the 900-fathom site has not resulted in substantially adverse effects to living resources of the ocean or to other uses of the marine environment. The 1,500-fathom site is expected to have similar effects on marine resources about 2.75 nautical miles southeast of the 900-fathom site.

The characteristics of the 1,500-fathom site are reviewed below for compliance with the 11 specific ocean dumping criteria.

1. *Geographical position, depth of water, bottom topography and distance from the coast*, 40 CFR 228.6(a)(1). The 1,500-fathom site is located about 5.45 nautical miles (9.2 kilometers) from shore at a depth of approximately 1,502 fathoms (2,748 meters). The bottom topography of the dump site slopes sharply from 1,200 fathoms in the northwest quadrant to depths more than 1,502 fathoms (NOAA, Chart 83434). Since the fish processing waste disposal

plume is buoyant, no sediment samples have been taken because benthic impacts are not expected at the site.

2. *Location in relation to breeding, spawning, nursery, feeding, or passage areas of living resources in adult or juvenile phases*, 40 CFR 228.6(a)(2). There are no known breeding, spawning or nursery uses of the 1,500-fathom site. The species in the vicinity of the site are pelagic fish species that are harvested commercially, and species of marine birds and cetaceans that are seen infrequently near the site.

3. *Location in relation to beaches and other amenity areas*, 40 CFR 228.6(a)(3). The 1,500-fathom site is 5.45 nautical miles from the nearest shoreline. EPA Region IX has determined that visual impacts of plumes, transport of dredged material to any shoreline and alteration of any habitat of special biological significance or marine sanctuary will not occur if this site is designated.

Comments received on the DEIS say that the plume from the 900-fathom site may have moved close to shore on rare occasions. These reports included sightings and detection of odors associated with the waste. As a result of these reports, EPA Region IX has moved the center of the disposal site farther offshore and increased the radius of the site to contain the plume as shown by mathematical model runs in the FEIS.

The special permits that will be issued for the site will require that the disposal vessel captain conduct all disposal operations in the upcurrent quadrant of the site. This will reduce the possibility of the discharge plume moving into sensitive marine habitats or near the shore.

4. *Types and quantities of wastes proposed to be disposed of, and proposed methods of release, including methods of packing the waste if any*, 40 CFR 228.6(a)(4). Actual disposal of DAP sludge has been about 48,000 gallons per day. The average monthly disposal of authorized wastes from both canneries has been about 860,000 gallons since the research permits were issued in 1987. The canneries propose to dispose of the following fish processing wastes at the disposal site: 91,400 gallons/day of dissolved air flotation (DAF) sludge, 113,300 gallons/day of precooker water, and 52,200 gallons/day of presswater. These amounts are proposed for disposal on a daily basis in the event that delays in daily disposal operations occur. If delays in disposal occur, the wastes will be stored until conditions for disposal are acceptable. At that time it is possible that additional disposal trips will be scheduled to empty the storage tanks. Future disposal operations may increase if precooker

water and press water must be dumped at sea after National Pollutant Discharge Elimination System (NPDES) permits impose stricter limits on waste discharges in Pago Pago Harbor.

The wastes will be transported via a dumping vessel with 24,000 gallon tanks. After modifications, the vessel could carry up to 100,000 gallons of waste per trip for disposal at the site. The disposal of the wastes will occur at a location 1.2 nautical miles upcurrent from the center of the site at a rate of 140 gallons per minute per knot, not to exceed 1400 gallons per minute at a maximum speed of 10 knots within a 0.2 nautical mile circle.

5. *Feasibility of surveillance and monitoring*, 40 CFR 228.6(a)(5). The EPA, the USCG and the ASEPA may conduct spot surveillance of disposal activities at the site, and they may inspect the disposal vessel for compliance with USCG regulations and the permits. EPA Region IX and ASEPA will assist the USCG within the limits of their jurisdiction.

Waste stream and plume monitoring will be key factors in the site monitoring program. The monitoring program will be established to answer several questions including: composition of wastes disposed at the site during the term of the permit, the area affected by the disposal plume, movement of the disposal plume toward land and areas of special biological significance, disposal model verification, and potential impacts on commercial and recreational fisheries. If significantly adverse impacts are detected at the site, the site management plan will be flexible enough to allow for appropriate action.

6. *Dispersion, horizontal transport and vertical mixing characteristics of the area, including prevailing current direction and velocity, if any*, 40 CFR 228.6(a)(6). Water currents in the vicinity of the 1,500-fathom site are variable but move parallel to shore in a west-southwest direction. Surface current speeds average between 0.16 and 0.67 knots. During storm events, greater surface current speeds occur. Vertical mixing to a depth of approximately 20 meters has been documented at the disposal site; however, the surface waters off American Samoa are strongly stratified and deeper mixing is not expected below the permanent thermocline.

The prevailing winds, oceanic currents, shoaling effects of the reefs and the configuration of the island contribute to a persistent longshore current between Pago Pago Harbor and the southeastern point of the island.

This current minimizes the possibility of the waste plume affecting nearshore reef areas. To further reduce the possibility of nearshore impacts, EPA Region IX has selected the 1,500-fathom site which is 5.45 nautical miles from shore.

7. *Existence and effects of current and previous discharges and dumping in the area (including cumulative effects)*, 40 CFR 228.6(a)(7). Disposal of fish processing wastes has been permitted at two locations near the 1,500-fathom site since September 1980. An average of about 860,000 gallons per month has been discharged at these sites since the first research permit was issued. Detailed field monitoring at the 900-fathom site, under 4 research permits, has not shown any unacceptable or cumulative environmental impacts since February 1987. Impacts on the water column during disposal operations are considered to be minimal and temporary. The potential for cumulative effects, also considered to be minimal at the 1,500-fathom site, will be assessed in the monitoring program as a major requirement of the MPRSA section 102 special permits.

8. *Interference with shipping, fishing, recreation, mineral extraction, desalination, fish and shellfish culture, areas of special scientific importance and other legitimate uses of the ocean*, 40 CFR 228.6(a)(8). Interference with shipping and fishing is minimal because vessel traffic in the vicinity of the disposal site is extremely low. To minimize effects on nearshore habitats and fish aggregation devices placed near the island, EPA Region IX has selected the 1,500-fathom site as the preferred alternative. There are no other uses of the ocean that could be affected by disposal of wastes at the 1,500-fathom site.

9. *The existing water quality and ecology of the site as determined by available data or by trend assessment or baseline surveys*, 40 CFR 228.6(a)(9). The oceanic water quality is considered to be excellent with regard to the concentration of nutrients and other compounds at the 1,500-fathom site. The size of the site has been enlarged to a radius of 1.5 nautical miles to contain any discharge plume within the boundaries. Water quality outside the site boundary is not expected to be affected by disposal of fish processing wastes.

The community of pelagic invertebrates in the vicinity of the 1,500-fathom site is dominated by large cephalopod mollusks of the genus *Nautilus*. Recent studies have shown that they may be food for large carnivores. Impacts on these highly

motile invertebrates are expected to be very small.

Pelagic fish caught in the vicinity of the 1,500-fathom site include skipjack (*Katsuwonus pelamis*) and yellowfin tuna (*Thunnus albacares*) which are fished commercially throughout the tropical South Pacific Ocean. Other important sport and commercial fish species are marlin (*Makaira* spp.), sailfish (*Istiophorus platyterus*), dolphin fish (*Coryphaena* spp.), wahoo (*Acanthocyprium solandri*) and kawakawa (*Euthynnus affinis*). These species are migratory and they avoid areas of turbid water. No impacts are expected on these fish species. No impacts are expected on coastal birds, cetaceans or any endangered species in the vicinity of the 1,500-fathom site.

10. *Potentiality for the development or recruitment of nuisance species in the disposal site*, 40 CFR 228.6(a)(10). Recruitment of nuisance species, such as sharks, in the vicinity of the disposal site is not expected. Sharks have been observed near the fish attractant device south of the island and in Pago Pago Harbor feeding on small fish. If a school of small prey fish were attracted to the waste plume, the sharks may pursue them. However, disposal of fish processing wastes at the current site has not caused an increase in the offshore shark population.

11. *Existence at or in close proximity to the site of any significant natural or cultural feature of historical importance*, 40 CFR 228.6(a)(11). There are no known shipwrecks or any known aboriginal artifacts in the vicinity of the 1,500-fathom site.

F. Action

EPA Region IX has concluded that the 1,500-fathom site, evaluated in the FEIS, may be designated for continued use. The 1,500-fathom site is compatible with the 5 general criteria and 11 specific criteria used by EPA for site evaluation. Designation of the 1,500-fathom site as an approved EPA Ocean Dumping Site is being published as final rulemaking. Management of this site will be the responsibility of the Regional Administrator of EPA Region IX. The monitoring program, required as part of the MPRSA section 102 special permits, will be conducted by the permittees.

Designation of an ocean dumping site by EPA Region 9 does not constitute or imply EPA Region IX's approval of actual ocean disposal of materials. Before ocean dumping of fish processing waste begins, EPA Region IX must evaluate each permit application according to the ocean dumping criteria. EPA Region IX has the right to disapprove the actual dumping, if

environmental concerns under MPRSA have not been met.

G. Regulatory Assessments

Under the Regulatory Flexibility Act, EPA is required to perform a Regulatory Flexibility Analysis for all rules which may have a significant impact on a substantial number of small entities. EPA has determined that this action will not have a significant impact on small entities since the site designation will only have the effect of providing a disposal site for fish processing wastes generated in Pago Pago, American Samoa. This action will not result in an annual effect on the economy of \$100 million or more or cause any of the other effects which would result in its being classified by the Executive Order as a major rule. Therefore, this proposed rule does not necessitate preparation of a Regulatory Impact Analysis.

The Final Rule does not contain any requirements to collect information that are subject to Office of Management and Budget review under the Paperwork Reduction Act of 1980, 44 U.S.C. sections 3501 *et seq.*

List of Subjects in 40 CFR Part 228

Water pollution control.

Dated: January 25, 1990.

Daniel W. McGovern,

Regional Administrator for Region IX.

In consideration of the foregoing, subchapter H of chapter 1 of title 40 is amended as set forth below.

PART 228—[AMENDED]

1. The authority citation for part 228 continues to read as follows:

Authority: 33 U.S.C. sections 1412 and 1418.

2. Section 228.12 is amended by adding paragraph (b)(74) to read as follows:

§ 228.12. Delegation of management authority for interim ocean dumping sites.

(b)

(74) American Samoa Fish Processing Waste Disposal Site, American Samoa Fish Processing Waste Disposal Site—Region IX.

Location: 14° 24.00' South latitude by 170° 38.20' West longitude (1.5 nautical mile radius).

Size: 7.07 square nautical miles.

Depth: 1,502 fathoms (2,746 meters or 9,012 feet).

Primary Use: Disposal of fish processing wastes.

Period of Use: Continued use.

Restrictions: Disposal shall be limited to dissolved air flotation (DAF) sludge, presswater, and precooker water

produced as a result of fish processing operations at fish canneries generated in American Samoa.

[FR Doc. 90-2440 Filed 2-5-90; 8:45 am]

BILLING CODE 6560-50-M

GENERAL SERVICES ADMINISTRATION

Federal Supply Service

41 CFR Part 101-49

[FPMR Amdt. H-175]

Utilization, Donation, and Disposal of Foreign Gifts and Decorations

AGENCY: Federal Supply Service, GSA.

ACTION: Final rule.

SUMMARY: This amendment redefines "minimal value" for foreign gifts based on the increase in the Department of Labor Consumer Price Index report of September 30, 1989. Public Law 95-105 requires that "minimal value" be redefined at 3-year intervals to reflect changes in the consumer price index for the immediately preceding 3-year period. This final rule redefines "minimal value."

EFFECTIVE DATE: January 1, 1990.

FOR FURTHER INFORMATION CONTACT: Stanley M. Duda, Director, Property Management Division (703-557-1240).

SUPPLEMENTARY INFORMATION: The General Services Administration has determined that this rule is not a major rule for the purposes of Executive Order 12291 of February 17, 1981, because it is not likely to result in an annual effect on the economy of \$100 million or more; a major increase in costs to consumers or others; or significant adverse effects. The General Services Administration has based all administrative decisions underlying this rule on adequate information concerning the need for and consequences of this rule; has determined that the potential benefits to society from this rule outweigh the potential costs and has maximized the net benefits; and has chosen the alternative approach involving the least net cost to society.

List of Subjects in 41 CFR Part 101-49

Foreign gifts and decorations, medals, awards, Foreign relations, Government property; Government property management.

Accordingly, 41 CFR part 101-49 is amended as follows:

PART 101-49—UTILIZATION, DONATION, AND DISPOSAL OF FOREIGN GIFTS AND DECORATIONS

1. The authority citation for part 101-49 continues to read as follows:

Authority: Sec. 205(c), 63 Stat. 390 (40 U.S.C. 486(c)); sec. 515, 91 Stat. 862 (5 U.S.C. 7342).

2. Section 101-49.001-5 is amended by revising the introductory statement to read as follows:

§ 101-49.001-5 Minimal value.

"Minimal value" means a retail value in the United States at the time of acceptance of \$200 or less, except that:

Dated: January 18, 1990.

Richard G. Austin,

Acting Administrator of General Services.

[FR Doc. 90-2664 Filed 2-5-90; 8:45 am]

BILLING CODE 6820-24-M

DEPARTMENT OF THE INTERIOR

Bureau of Land Management

43 CFR 5450

[AA-230-08-6310-02; Circular No. 2622]

RIN 1004-AB49

Sales of Forest Products

AGENCY: Bureau of Land Management, Interior.

ACTION: Final rulemaking.

SUMMARY: This rulemaking amends provisions of the existing regulations in 43 CFR part 5450, Award of Contract; General, to reduce the risk of default on timber sale contracts. The potential exists for Bureau of Land Management (BLM) timber sale contracts to be defaulted by purchasers who are not able to or choose not to complete the contracts by their expiration dates. Such defaults create forest management problems and reduce timber revenues to the Federal Treasury and local governments. This rulemaking requires additional security from purchasers of new sales where the purchaser has defaulted on a past sale contract and has not paid or bonded for the damages associated with the defaulted sale. The increased security reduces the Government's risk from non-performance by defaulters, increases the likelihood that all purchasers will complete their timber sale contracts on time, and provides an alternative remedy to debarment in cases of default. This rulemaking supplements the existing pre-award qualification rule which requires the authorized officer of

the BLM to determine whether the high bidder is qualified or responsible to perform the obligations of the contract. In addition to the authorized officer's existing duty to assess the high bidder's qualification in terms of having contractor status, financial capability, skill, and ability, this rulemaking gives the authorized officer the basis to deal with the high bidder's responsibility as demonstrated by performance on past contracts.

EFFECTIVE DATE: March 8, 1990.

ADDRESSES: Inquiries or suggestions may be sent to: Director (230), Bureau of Land Management, Room 909 Premier Bldg., Department of the Interior, Washington, DC 20240.

FOR FURTHER INFORMATION CONTACT: Richard Bird, (202) 653-8864.

SUPPLEMENTARY INFORMATION: Current regulations at 43 CFR 5450.1(a) authorize the authorized officer to require a high bidder to provide such information as is necessary to determine the ability of the bidder to perform the obligations of the contract. Defaulting on past contracts indicates that the purchaser may not be capable of meeting or may willfully disregard contractual obligations. Regardless of the reason, a likelihood of failure to perform new contractual obligations is unacceptable to the United States, and presents the need for additional security against such failure in appropriate circumstances.

Failure to perform, or default on, Federal sale contracts impairs the land management ability of the Federal Government, reduces local and Federal revenue, and affects other timber purchase companies. Reoffering defaulted timber sales interrupts the orderly offering of timber sales in the same vicinity by requiring the adjustment and repetition of actions already completed. Efficient reforestation is complicated by the uncertain timing associated with potential default and resale. The determination of cumulative environmental impacts is increased because of the passage of time. The collection of receipts shared by the United States and local government is delayed and the actual amount collected may be reduced. The United States is put in the uncertain position of not knowing whether the defaulter is either able or willing to complete other contracts.

Under law, defaulted timber sales sold prior to January 1, 1982, are reoffered for sale as a part of rather than in addition to the normal timber sale program. This results in reduced inventories of timber held by timber



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105

December 4, 1990

Lyle L. Richmond
Acting Administration Manager
VCS Samoa Packing Company
P.O. Box 957
Pago Pago, American Samoa 96799

Re: Request to Dispose of Thaw Water Under Ocean Dumping
Permit OD 90-02 Special

Dear Mr. Richmond:

We have reviewed your request of November 30, 1990 to dispose of unprocessed thaw water generated by VCS Samoa Packing Company's fish canning plant under its ocean dumping permit OD 90-02 Special at the designated ocean dump site. It is our understanding from your letter and recent discussions with you on November 14 while my staff and I were in American Samoa, that Samoa Packing desires to utilize its total maximum allowed daily disposal volume of 200,000 gallons by adding a fourth waste stream -- thaw water. The present permit allows disposal of the following volumes per waste stream:

60,000 gallons	Dissolved Air Flotation (DAF) sludge
100,000 gallons	Precooker water
<u>40,000 gallons</u>	Press water
200,000 gallons	Total allowable daily disposal volume

From our discussion and review of the data submitted for the intensive monitoring of the waste streams for the months of August, September, and October 1990, it appears that approximately 30-40% of the 200,000-gallon total daily volume allowed for discharge is being utilized daily for disposal of DAF sludge, precooker water and press water. The designated disposal vessel, the **MV ASTRO**, has a capacity of 200,000 gallons. Thus Samoa Packing proposes to add thaw water to the daily amounts of DAF sludge, precooker and press water to bring the total amount barged and disposed of daily to 200,000 gallons.

After review of the existing data and previous reports on ocean disposal of cannery waste, we have determined that the thaw water proposed for ocean disposal is unprocessed fish waste and

is excluded from permitting under 40 CFR Section 220.1(c)(1). Thus, thaw water can be added to the fish processing wastes that are permitted for disposal under Permit OD 90-02 to maximize the **MV ASTRO's** disposal capacity. In addition to reporting requirements for your ocean dumping permit, we are requesting Samoa Packing to report the volume of thaw water disposed on each trip to the designated disposal site.

We believe the disposal of the thaw water at sea is an environmentally sound proposal because it will serve to dilute the high strength waste streams presently being disposed. Thaw water disposal at the fish processing waste disposal site will further reduce the nutrient load into Pago Pago Harbor, thereby improving the water quality.

Should you have any further questions regarding Samoa Packing's ocean dumping permit, please contact Pat Young at (415) 744-1591 or Patrick Cotter at (415) 744-1985.

Sincerely,

A handwritten signature in black ink, appearing to read "Norman L. Lovelace", with a stylized flourish at the end.

Norman L. Lovelace
Chief, Office of Pacific Island
and Native American Programs

cc: Pati Faiai, ASEPA
William Coleman, ASEQC
Virginia Gibbons, ASG Attorney General's Office

bc: Mike Lee, OPINAP
Pat Cotter, W-7



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 9
1235 MISSION STREET
SAN FRANCISCO, CA 94103

August 29, 1990

Greg Lukeman
Environmental and Engineering Affairs
Van Camp Seafood Company, Inc.
Boatman's Tower
100 N. Broadway, Suite 900
St. Louis, MO 63102

VIA FAX

Dear Greg:

I talked with Pat Cotter regarding your question on how to determine the leading edge of the plume (Station 5) for sampling purposes as part of the monitoring requirements of Van Camp's ocean dumping permit in American Samoa. Pat said that according to Dorothy Soule, who did the modeling for the permit, the discharge plume is very distinct and the edge of the plume can be easily distinguished as the plume is a brownish color. Thus after sampling at Station 4, the monitoring vessel should continue in the same direction until the leading edge of the plume can be discerned and the water sample taken at the edge of the plume (but within the plume). (There is no prescribed length of time the vessel must travel after sampling at Station 4.) If there is a problem in determining the plume's edge, please have the principal investigator do the best he can, and let us know immediately, so we can discuss the problem and come up with a solution.

Regarding the three documents referenced on page 8 of the permit under Section 3.1.2, I am having copies made and will send them to you as soon as possible (I hope by next week).

I asked Pat about locating a thermometer which can measure temperature at 10 meters. He suggested using either a reversing thermometer or a probe. A reversing thermometer is used frequently in monitoring lakes and the thermometer is sent down a line with a water sample bottle, to the prescribed depth. Then a "block" is sent down the line which breaks the mercury and registers the temperature at that depth. (A water sample can also be collected at the same time.) I'm having our lab folks locate a possible source for this, and will fax it to you when we have something, but you could call a local agency which you know does lake monitoring and possibly get some leads from them.

I have attached some lab catalog pages with informaion on probes. One type is just the thermometer itself (you would also need to get a meter) and the other probe is more sophisticated (and expensive) and measures other parameters. I hope this information is helpful.

Please give me a call if you have any other questions.

Sincerely,

A handwritten signature in black ink that reads "Pat Young". The signature is written in a cursive, flowing style.

Pat Young
American Samoa Program Manager

cc: Pat Cotter

Enclosures

Thermistor probes

Pipe-fitting probe



Stainless steel probe and fitting. Detachable and autoclavable probe. Not electrically isolated. -40° to 300°F (-40° to 150°C). Time constant 3.4 seconds. (YSI 416)

N-08449-00 Pipe-fitting probe \$89.00

Deep soil probe



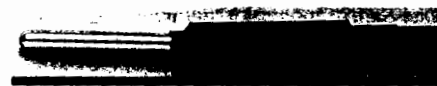
For continuous immersion to 250 ft in air or water. Neoprene probe with neoprene-covered lead. Max temperature: 302°F (150°C). Time constant: 30 seconds. (YSI 428)

N-08431-80 Deep soil probe; 10-ft lead \$99.00

N-08431-82 Deep soil probe; 50-ft lead \$131.00

N-08431-84 Deep soil probe; 100-ft lead \$171.00

Deep water probe



Weighted and insulated for continuous underwater use to 2000 ft. Stainless steel/neoprene probe with neoprene-covered lead. Max temperature: 304°F (150°C). Time constant: 2 seconds. (YSI 429)

N-08431-90 Deep water probe; 10-ft lead \$174.00

N-08431-92 Deep water probe; 50-ft lead \$206.00

N-08431-94 Deep water probe; 100-ft lead \$246.00

Reference probe



Stainless steel probe for use as a standard or for applications where long-term stability is essential. Typically stable within $\pm 0.015^\circ\text{C}$. Warranted to an interchangeability of $\pm 0.06^\circ\text{C}$. 32° to 158°F (0° to 70°C). Time constant: 6.0 seconds. (YSI 407)

N-08431-70 Reference probe \$134.00

Reference probe



Tubular glass probe; same specifications as stainless steel model 08431-70. (YSI 411)

N-08431-72 Reference probe \$123.00

Probe extension leads

N-08460-00 Extension lead, 10-ft \$19.50

N-08462-00 Extension lead, 25-ft \$22.50

N-08464-00 Extension lead, 50-ft \$37.00

NOTE: Nonstandard lead lengths over 10 feet are available on special order. Call our Technical Specialists at 1-800-323-4340 for details.

Pyrex—Reg TM Corning Glass Works
Teflon—Reg TM E.I. du Pont de Nemours & Co.

Thermistor switchboxes

- Accept up to ten probes
- Connect bench models for input from more than ten probes
- Attach plug-in unit directly to handheld thermistor thermometer

Benchtop model

Monitor up to ten different temperatures with one meter. This switchbox is indispensable for multi-point measurements—instead of buying several meters, you can input all of your probes to one meter via the switchbox.

No time-consuming detaching and re-attaching of probes—simply plug all your probes into the switchbox and connect the switchbox to your meter. A ten-position rotary switch allows instant access to the desired probe.

Expand system to meet your needs. More than one switchbox may be "daisy-chained" to allow over ten probes to be used with one meter. Dimensions: 2 1/2" x 6" x 6 1/4". Shpg wt: 2 lbs (0.9 kg).

N-08401-12 Benchtop thermistor switchbox for 10 probes \$99.00

Plug-in model

Simplify differential temperature measurements and calculations with this three-probe switchbox. Just mount your reference probe and plug it into the switchbox along with your sampling probe(s). A twist of the dial switches your input from sample probe to reference and back again.

Ideal for use with handheld thermometers. Unit plugs directly into the probe jack of any thermistor thermometer that accepts YSI series 400 probes. Measures only 3 1/2" x 2 5/8" x 1 1/2" and weighs just 4 oz.

N-08401-10 Plug-in thermistor switchbox for 3 probes \$65.00

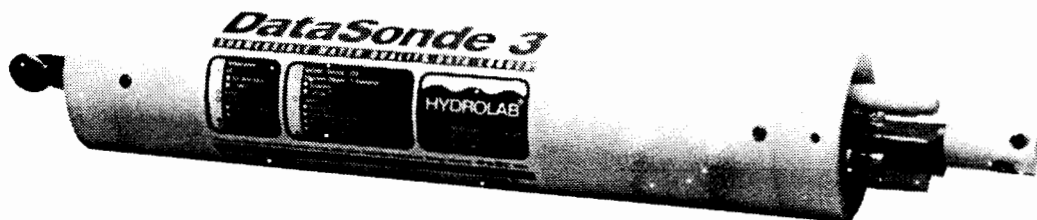
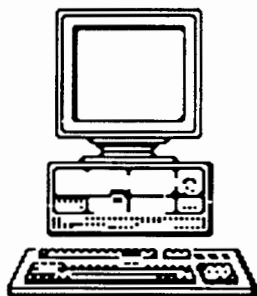


— NEW —

DataSonde® 3

Submersible Multi-Parameter Water Quality Datalogger
for profiling or unattended monitoring in freshwater,
saltwater and groundwater to 150 meters

\$ 4500



\$2800 for probe measuring
temperature, conductivity, salinity
\$410 for 10 m cable

Record up to six important water quality parameters
at pre-selected time intervals with one compact probe.

Benefit Immediately

- Reduce the number of instruments you take to the field to ONE... just one DataSonde 3 does most monitoring tasks.
- Save time in **DATA HANDLING** by dumping data stored in DataSonde's solid-state memory directly to spreadsheet environments (Lotus® 1-2-3, Symphony®, etc.) at the lab, or in the field with a laptop PC.
 - No more having to interpret and integrate strip-chart or magnetic-tape records from multiple instruments. DataSonde 3 has all required software to present stored data in report-ready format.

- Save time and effort: **CLEAN, CALIBRATE, TRANSPORT** and **DEPLOY** just one monitoring instrument.

– No more having to round-up several instruments, verify that they all work, or relearn all their peculiarities each time you head to the field.

– No more untangling and tripping over multiple cables; and no more cables connected to several instruments, heavy power supplies, or batteries that need charging before you leave the lab. DataSonde 3 runs on self-contained alkaline "flashlight" batteries.

temperature

dissolved oxygen

specific conductance

salinity

pH

ORP (REDOX potential)

depth or level

Hydrolab and Reliability*

We think that, from a field-instrument user's point of view, the value of a product is the sum of four basic qualities: **Reliability, Performance, Ease of Use, and Professional Appearance**

Each of these can surely be broken into more definitive terms, but when we think of **RELIABILITY**, thirty years in the business has convinced us that whether we are talking about a field water quality monitoring instrument or a parachute, reliability means

"No Problems". We want it to work the way it was designed to work and continue doing so until it dies of old age. This is what we work toward, *continuously*.

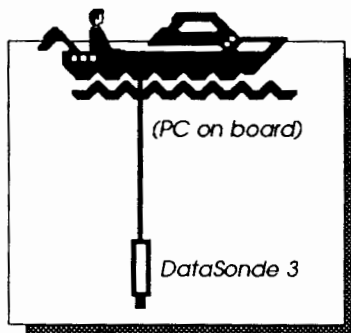
And if it "breaks"? We promise the best Customer Service in this industry. To find out what we do about reliability, **ask for the Hydrolab Bulletin on "Quality Assurance"**.

So what can YOU do about Reliability?...insist on it.

****think Reliability™***



DataSonde 3 is a versatile instrument that will make your water quality monitoring job an easier one, regardless of the application:

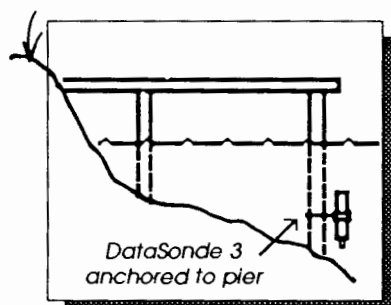
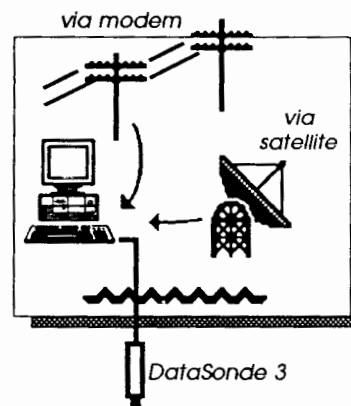


Profiling

Connect a DataSonde 3 and cable to a laptop PC and lower the DataSonde 3 over the side of the vessel. View current parameter values at each measurement depth and store the data on disk for later analysis. Upon completion of the profile, review the data and move to the next station.

Unattended Monitoring (on-line)

Obtain real-time data by connecting a DataSonde 3 directly to your computer, or remotely via modem (telephone) or other communication link, including RF or satellite telemetry.



Unattended Monitoring (off-line)

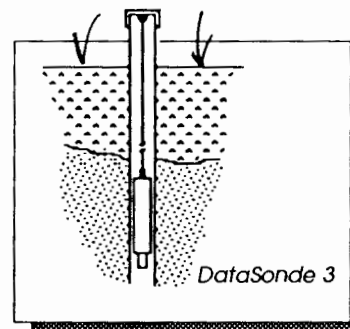
Using your PC or data terminal, select the parameters of interest (dissolved oxygen, specific conductance, pH, etc.) and set up the logging sequence. Deploy the DataSonde 3 at a monitoring site, totally immersed if necessary for security. At the end of the monitoring period, retrieve and dump stored data to your PC disk.

Groundwater Monitoring

Conduct real-time **in-situ** measurements in 4-inch diameter wells or greater by lowering a DataSonde 3 to screen-depth (before or after purging) while connected to a laptop PC for viewing at the wellhead. Optionally, connect it to a modem or other telemetry device for remote observation.

For non-real-time measurements, attach the DataSonde 3 to a wire-line suspended from the secured wellcap (electrical connection is not required for this application).

Finally, for monitoring wells of smaller diameter or if **in-situ** measurements are not required, attach a Hydrolab **Flow Cell** to the sensor end of the DataSonde 3 with the inlet line connected to the well pump. Observing current values of temperature, specific conductance, pH and ORP during purging assures that representative samples are collected at the well head.



Hydrolab and DataSonde

Hydrolab isn't new. We've been building reliable instruments for more than 33 years. DataSonde isn't new. We've been building them for more than 10 years.

DataSonde 3 is new. It has features that were not available in earlier versions that are used by:

- every federal agency in the U.S. and Canada associated with water resources,
- state & provincial agencies,
- consultants to industry & government,
- educational & research institutions.

DataSonde 3 has been selected as a primary water quality monitoring tool for the EPA's Environmental Monitoring and Assessment Program (EMAP).

Need additional information?

If you are measuring and recording any of the parameters mentioned here, the DataSonde 3 can provide benefit to your field water quality monitoring programs and we invite your further enquiry as to its attributes.

Ask for our **Brochure** that provides operating specifications with EPA-accepted methods of measurement, **Ordering Information** with prices, plus a list of Hydrolab Representatives and Dealers worldwide.



HYDROLAB CORPORATION
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FAX (512) 255-3106
Telephone (512) 255-8841

For immediate assistance, call our sales staff for information or help with your application.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

Fred H. Avers
Vice President and Director
Production Operations
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, Missouri 63102

02 AUG 1990

RE: Issuance of Special Ocean Dumping Permit for VCS Samoa
Packing Company, Inc. (OD 90-02)

Dear Mr. Avers:

Due to clerical and staff errors original copies of Special Ocean Dumping Permit OD 90-02 and the cover letter were not sent to you. I am enclosing these documents and a copy of Ocean Dumping Permit OD 90-01 issued to StarKist Samoa. A correct copy of page 18, indicating the date that Mr. Takata signed the VCS Samoa Packing Company permit will be sent to EPA Region 9's Ocean Dumping Permit mailing list. We regret these errors. If you have any questions regarding the foregoing, please contact me at (415) 705-2162.

Sincerely,

A handwritten signature in cursive script, reading "Patrick J. Cotter", is written over the typed name.

Patrick J. Cotter
Ocean Dumping Coordinator
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures

James L. Cox
Director of Engineering
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, MO 63102

RE: Temporary Use of the MV MATAORA for Disposal of Fish
Processing Waste Under Special Ocean Dumping Permit OD 90-02

Dear Mr. Cox:

EPA Region 9 has received your July 30, 1990 request for temporary use of the MV MATAORA to dispose of fish processing wastes under Special Ocean Dumping Permit OD 90-02 until the MV ASTRO is approved for use in United States territorial waters. On July 30, 1990 the American Samoa Environmental Protection Agency informed EPA Region 9 that damage to the MV MATAORA's sludge tank has been repaired, and that vessel is now awaiting U.S. Coast Guard inspection.

EPA Region 9 approves the temporary use of the MV MATAORA for disposal of fish processing wastes under Special Ocean Dumping Permit OD 90-02. All conditions that apply to a disposal vessel under that permit shall apply to the use of the MV MATAORA. However, the MV MATAORA may not be used until the U.S. Coast Guard has inspected the vessel. They must determine that the vessel is seaworthy and can be used safely for disposal of fish processing wastes. Please provide us a copy of the U.S. Coast Guard's inspection and approval letter before any disposal occurs.

As soon as the MV ASTRO is approved for use in United States territorial waters, please notify EPA Region 9 by letter. Upon receipt of your letter by EPA Region 9, this temporary authorization for use of the MV MATAORA shall be revoked. If you have any questions on this matter, please call Mr. Patrick Cotter at (415) 705-2162.

Sincerely,

Harry Seraydarian, Director
Water management Division

SYMBOL						
SURNAME						
DATE						
U.S. EPA CONCURRENCES						

7/31/90
Official File Copy

cc: Pati Faiai, American Samoa EPA
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Lillick and McHose
James McCafferty, Van Camp Seafood Company



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

JUL 30 1990

MEMORANDUM

SUBJECT: Issuance of Special Ocean Dumping Permits for
StarKist Samoa, Inc. (OD 90-01) and VCS Samoa Packing
Company, Inc. (OD 90-02)

FROM: Janet Hashimoto, Chief
Oceans and Estuaries Section (W-7-1)

TO: Darrell Brown, Chief
Marine Permits and Monitoring Branch (WH-556F)
Office of Marine and Estuarine Protection

The U.S. Environmental Protection Agency Region 9 is issuing special ocean dumping permits to StarKist Samoa, Inc. (OD 90-01) and VCS Samoa Packing Company, Inc. (OD 90-02) under § 102 of the Marine Protection, Research and Sanctuaries Act. The effective date of the permits and the ocean disposal site is July 31, 1990. These permits authorize disposal of fish processing wastes off American Samoa for a three year period. No negative comments were received on the draft revisions to the ocean dumping permits during the 30 day comment period from May 7, 1990 to June 7, 1990. Therefore, EPA Region has determined that the special ocean dumping permits should be issued.

Information gathered during the term of the special permits, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA Region 9's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Attachment



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

JUL 30 1990

RE: Issuance of Special Ocean Dumping Permits for StarKist Samoa, Inc. (OD 90-01) and VCS Samoa Packing Company, Inc. (OD 90-02)

Dear Interested Party:

The U.S. Environmental Protection Agency Region 9 is issuing special ocean dumping permits to StarKist Samoa, Inc. (OD 90-01) and VCS Samoa Packing Company, Inc. (OD 90-02) under § 102 of the Marine Protection, Research and Sanctuaries Act. The effective date of the permits and the ocean disposal site is July 31, 1990. These permits authorize disposal of fish processing wastes off American Samoa for a three year period. No negative comments were received on the draft revisions to the ocean dumping permits during the 30 day comment period from May 7, 1990 to June 7, 1990. Therefore, EPA Region has determined that the special ocean dumping permits should be issued.

Information gathered during the term of the special permits, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA Region 9's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

A handwritten signature in cursive script, reading "Janet Y. Hashimoto", is positioned above the typed name.

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION IX
1235 Mission Street
San Francisco, CA 94103**

JUL 30 1990

Fred H. Avers
Vice President and Director
Production Operations
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, Missouri 63102

RE: Issuance of Special Ocean Dumping Permit for VCS Samoa
Packing Company, Inc. (OD 90-02)

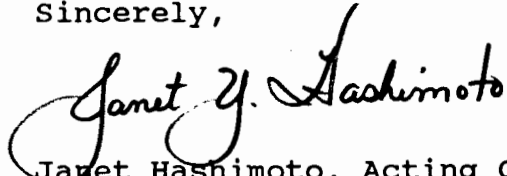
Dear Mr. Avers:

The U.S. Environmental Protection Agency Region 9 is issuing a special ocean dumping permit to VCS Samoa Packing Company, Inc. (OD 90-02) under § 102 of the Marine Protection, Research and Sanctuaries Act. The effective date of the permit and the ocean disposal site is July 31, 1990. The permit authorizes disposal of fish processing wastes off American Samoa for a three year period. We received a comment letter on the draft revised special permit from Mr. Thomas P. Redick, Esq. on behalf of VCS Samoa Packing Company, Inc. (June 5, 1990). He advised EPA Region 9 that the revised draft permit is acceptable to VCS Samoa Packing company. No negative comments were received on the draft revisions to the ocean dumping permit during the 30 day comment period from May 7, 1990 to June 7, 1990. Therefore, EPA Region has determined that the special ocean dumping permit should be issued.

Information gathered during the term of the special permit, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA Region 9's management of the fish processing waste disposal program off American Samoa. This includes an evaluation of the temperature data to determine whether the summer discharge rate can be revised at a future date. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

A handwritten signature in black ink that reads "Janet Y. Hashimoto". The signature is fluid and cursive, with the first name "Janet" and the last name "Hashimoto" being more prominent than the middle initial "Y.".

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosure

cc: Dyke Coleman, American Samoa EQC
Pati Faiai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Norman Wei, StarKist Seafoods
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Esq., Lillick & McHose
John Ciko, Esq., H.J. Heinz Co.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX

Fred H. Avers
Vice President and Director
Production Operations
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, Missouri 63102

RE: Issuance of Special Ocean Dumping Permit for VCS Samoa
Packing Company, Inc. (OD 90-02)

Dear Mr. Avers:

The U.S. Environmental Protection Agency Region 9 is issuing a special ocean dumping permit to VCS Samoa Packing Company, Inc. (OD 90-02) under § 102 of the Marine Protection, Research and Sanctuaries Act. The effective date of the permit and the ocean disposal site is July 31, 1990. The permit authorizes disposal of fish processing wastes off American Samoa for a three year period. We received a comment letter on the draft revised special permit from Mr. Thomas P. Redick, Esq. on behalf of VCS Samoa Packing Company, Inc. (June 5, 1990). He advised EPA Region 9 that the revised draft permit is acceptable to VCS Samoa Packing company. No negative comments were received on the draft revisions to the ocean dumping permit during the 30 day comment period from May 7, 1990 to June 7, 1990. Therefore, EPA Region has determined that the special ocean dumping permit should be issued.

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SYMBOL	W-7-1	E-4	RC-4	W-7-1	
SURNAME	Sto	Witt	Witt	Yashimoto	
DATE	7/4/90	7/11/90	7/12/90	7/16/90	
U.S. EPA CONCURRENCES					OFFICIAL FILE COPY

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosure

cc: Dyke Coleman, American Samoa EQC
Pati Faiai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Norman Wei, StarKist Seafoods
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Esq., Lillick & McHose
John Ciko, Esq., H.J. Heinz Co.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

25 JUL 1990

MEMORANDUM

SUBJECT: Publication of a Correction to the Final Rule for
Designation of an Ocean Disposal Site for Fish
Processing Wastes Produced in American Samoa

FROM: Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch (W-7)

TO: Vickie Reed
Information and Regulatory Systems Division
Office of Standards and Regulations (PM-223)

The Regional Administrator has concurred on Region 9's correction to the final rule to designate an ocean disposal site for fish processing wastes generated in American Samoa. The effective date of the designated site is July 31, 1990. I have attached copy of the document and a typesetting request for the cost of publishing the final rule in the Federal Register. The final permits for use of this site are effective on the same day. Please expedite publication of the final rule and contact Patrick Cotter at (415) 705-2162 to confirm when the notice was published in the Federal Register. Thank you for your assistance in this matter.

Attachments

ENVIRONMENTAL PROTECTION AGENCY

40 C.F.R. Part 228

**OCEAN DUMPING; FINAL DESIGNATION OF SITE LOCATED OFFSHORE OF
TUTUILA ISLAND, AMERICAN SAMOA**

AGENCY: Environmental Protection Agency

ACTION: Final Rule; Correction of Effective Date.

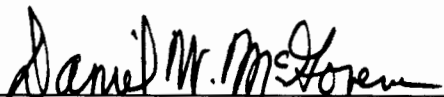
SUMMARY: The Federal Register publications on February 6, 1990, 55 Fed. Reg. 3948, and on May 16, 1990, 55 Fed. Reg. 20274, pertain to the Final Rule for designating an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes are hereby corrected. This correction applies to the effective date of the designated site.

The three-year special ocean dumping permits for StarKist Samoa, Inc. and VCS Samoa Packing Company, Inc. become effective on July 31, 1990. The effective date of the ocean disposal site is also July 31, 1990.

DATE: This designation shall become effective on July 31, 1990.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

DATED: 7.20.90



DANIEL W. MCGOVERN

REGIONAL ADMINISTRATOR

REGION IX

U.S. ENVIRONMENTAL PROTECTION AGENCY

In consideration of the foregoing, Subchapter H of Chapter 1 of Title 40 is amended as set forth below.

Part 228 - [Amended]

1. The authority citation for Part 228 continues to read as follows:

Authority: 33 U.S.C. Sections 1412 and 1418.

2. Section 228.12 is amended by amending the following subparagraph to paragraph (b)(74), to read as follows:

Section 228.12 Delegation of management authority for ocean dumping sites.

* * * * *

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site-
Region IX

Effective Date: July 31, 1990.

FEDERAL REGISTER TYPESETTING REQUEST

Requestor: Complete items 1, 2, 7, 8, 9, 10, 11, 12 and 13. Retain copy number 7 and submit the balance with manuscript copy to the Hq. Federal Register Office.

HQ Federal Register Office: Complete items 3, 4, 5 and 6. Retain copy number 6 and submit balance to Hq. Printing Management.

1. TITLE

OCEAN DUMPING; FINAL DESIGNATION OF SITE LOCATED OFFSHORE
PF TUTUILA ISLAND, AMERICAN SAMOA

2. SUBMITTING ACTIVITY

FINAL RULE; CORRECTION OF EFFECTIVE DATE

3. ASSIGNED FRL NUMBER (include alpha & numeric characters for identification.)

4. OPEN REQUISITION NUMBER

5. BILLING CODE

6. FORWARDED TO GSA, NARS - SIGNATURE

DATE

7. NUMBER OF MANUSCRIPT PAGES

2

8. ESTIMATED NUMBER OF COLUMNS

1

9. ESTIMATED COST

\$125.00

10. FINANCIAL DATA

FMO USE (a)														D T (b)	DOCUMENT CONTROL NO. (c)						ACCOUNT NO. (d)										OBJECT CLASS (e)				AMOUNT (f)														
																																			DOLLARS												CTS		
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11. SIGNATURE: (a) REQUESTING OFFICER

HARRY SERAYDARIAN, DIRECTOR, WMD

12. SIGNATURE: (a) FEDERAL REGISTER DESIGNEE

PATRICK COTTER, OCEANS AND ESTUARIES

(b) DATE

(c) TELEPHONE NUMBER

415-705-2078

(b) DATE

7/5/90

(c) TELEPHONE NUMBER

415-705-2182

13. FUNDS ARE AVAILABLE (Commitment Clerk)

PAT STRONG ADMINISTRATIVE OFFICER



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

18 JUL 1990

MEMORANDUM

SUBJECT: Publication of the Effective Date of the American Samoa Fish Waste Disposal Site in the Federal Register

FROM: Keith Takata *Keith Takata*
Deputy Director
Water Management Division (W-1)

TO: Daniel W. McGovern
Regional Administrator

I am requesting your signature on a Federal Register notice to correct the effective date of an ocean disposal site off American Samoa (see attachment). WMD has prepared a three-year special ocean dumping permit for two fish processing plants in American Samoa. The two canneries plan to dispose fish processing wastes at an EPA designated ocean disposal site. The ocean disposal site designation process has been completed and we must publish an effective date in the Federal Register when the site can be used. The effective date is July 31, 1990 which coincides with the effective date of the special ocean dumping permits. This is a correction to the initial site designation Federal Register notice which said "the site designation would be effective when the special permits were issued."

We did not have any negative comments on the final versions of the special permits or the final rule for site designation. All Federal and American Samoa agencies support designating the site for continued use. We will evaluate permit and site monitoring data as part of our site management responsibilities to ensure that significant negative environmental impacts do not occur.

Attachment



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 9
1235 MISSION STREET
SAN FRANCISCO, CA 94103**

24 JUL 1990

Thomas P. Redick
Lillick & McHose
101 West Broadway, 10th Floor
San Diego, California 92101

Re: Request for Change in Vessel Designation to the M.V.
ASTRO to Allow Test Ocean Disposal Runs Prior
To July 31, 1990

Dear Mr. Redick:


Your request of July 19, 1990 to change designation of the disposal vessel under the existing ocean disposal permit OD 88-02, to include the new ocean disposal vessel, M.V. ASTRO, for trial runs of disposing high strength wastes and sludge, is approved and effective immediately. This change does not preclude continued use of the present vessel, the MATAORA, should circumstances require it.


Please note however, that disposal can only be allowed at the present disposal site in the quantities allowed under the present permit and that the newly-designated ocean disposal site cannot be utilized prior to July 31, 1990, the date both Samoa Packing's new ocean disposal permit, OD 90-02 and the new site, become effective. However, we understand that it is not your intention to dump at the new site prior to July 31st and that your tentative plan is to make several test runs involving trips to the new dump site carrying a load of fish waste (without dumping at the new site) to test time and maneuverability. The M.V. ASTRO would then return to the old site to discharge the waste and test out its pumps. EPA is agreeable to the test runs as described.

- 2 -

Should you have any questions regarding this action,
please contact Patrick Cotter at (415) 705-2162 or Pat Young
at (415) 556-5069.

Sincerely,

A handwritten signature in black ink, appearing to read "Harry Seraydarian", with a stylized flourish at the end.

 Harry Seraydarian
Director, Water Management Division

cc: Maurice Callaghan
Norman Wei
John Ciko
Gordon Stirling
James Cox
James McCafferty
Pati Faiai

24 JUL 1990

Thomas P. Redick
Lillick & McHose
101 West Broadway, 10th Floor
San Diego, California 92101

Re: Request for Change in Vessel Designation to the M.V.
ASTRO to Allow Test Ocean Disposal Runs Prior
To July 31, 1990

Dear Mr. Redick:

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E-4
Lovelace
7/20/90

RC-4
Mutt
7/20/90
Woe
7/23/90
Bumma
7/24/90

W-1
K
7-24

- 2 -

Should you have any questions regarding this action,
please contact Patrick Cotter at (415) 705-2162 or Pat Young
at (415) 556-5069.

Sincerely,

Harry Seraydarian
Director, Water Management Division

cc: Maurice Callaghan
Norman Wei
John Ciko
Gordon Stirling
James Cox
James McCafferty
Pati Faiai

United States
Environmental Protection
Agency

Regional Administrator
215 Fremont Street
San Francisco CA 94105

Region 9
Arizona, California
Hawaii, Nevada
Pacific Islands



FOR IMMEDIATE RELEASE: Friday, May 18, 1990

Contact: Lois Grunwald, U.S. EPA
(415) 556-5128

EPA SEEKS PUBLIC COMMENT ON WASTE DISPOSAL SITE OFF SAMOA

(San Francisco) -- The U.S. Environmental Protection Agency (EPA) today is seeking public comments on revisions of two draft permits which would allow Star-Kist Samoa Inc. and VCS Samoa Packing Co. to dispose of fish processing wastes from their canneries into the Pacific Ocean off American Samoa.

EPA issued notices for proposed permits for the two companies in February 1990, and the companies then requested changes to the draft permits.

According to the revised permits, VCS Samoa is proposing to dispose of up to 200,000 gallons per day of fish wastes. VCS had originally proposed to dump a maximum of 56,900 gallons per day. Star-Kist's proposed discharge will remain the same at 200,000 gallons per day. EPA has determined that unacceptable adverse impacts or damage to the marine environment will not occur at the disposal site as a result of the waste disposal operation. The waste will be discharge from a disposal vessel at a site located about five and one-half miles offshore. The federal Marine Protection, Research and Sanctuaries Act authorizes EPA to issue the ocean disposal permits.

Comments on the draft revised permits or requests for a public hearing must be sent in writing to the following address no later than June 7, 1990 to:

Ocean Dumping Coordinator
Oceans and Estuaries Section (W-7-1)
U.S. Environmental Protection Agency
1235 Mission St.
San Francisco, CA 94103

(more)

APPEARED IN MINI-CLIPS

24

The public notice, draft permits, final rule and administrative records are available for public review at the U.S. EPA; 630 Sansome St., San Francisco, Calif., upon special request by calling (415) 705-2162. They can also be reviewed at:

Pacific Islands Contact Office
U.S. EPA
300 Ala Moana Blvd.
Room 1302
Honolulu, HI
(808) 541-2710

American Samoa Environmental
Protection Agency
Office of the Governor
Pago, Pago, American Samoa
(684) 633-2682

#

APPEARED IN MINI-CLIPS

25



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

Fred H. Avers
Vice President and Director
Production Operations
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, Missouri 63102

RE: Response to Comments and Publication of Revised Draft
Special Ocean Dumping Permit (OD 90-02) for VCS Samoa
Packing Company, Inc.

Dear Mr. Avers:

The U.S. Environmental Protection Agency (EPA) Region 9 has prepared responses to comments received on VCS Samoa Packing Company's February 2, 1990 draft special ocean dumping permit (OD 90-02) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing waste off American Samoa. Several changes were made to the draft special permit as a result of VCS Samoa Packing Company's comments, including a request for authorization to use a new disposal vessel and an increase in the amount of fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permit were made to the following sections:

- 1) The owner and identity of the disposal vessel were changed (page 1);
- 2) Corrections to typographical errors were made regarding the location and size of the disposal site (Special Condition 2.2);
- 3) Changes in the amount of fish processing wastes authorized for disposal were made (Special Conditions 2.3 and 2.4),
- 4) New waste stream parameter limits were calculated for each waste stream based on new data submitted by VCS Samoa Packing Company and limits for total solids were added (Special Condition 2.4.1);
- 5) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 6) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 7) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 8) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

Our tentative decision is to issue the revised draft special ocean dumping permit OD 90-02 to VCS Samoa Packing Company for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permit. The public notice enclosed with this letter will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permit. The notice of correction enclosed with this letter will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also enclosed a copy of the revised draft special permit, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

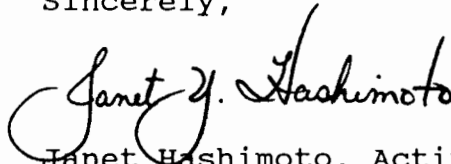
Information gathered during the term of the special permit, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal

operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

Cooperative work between EPA Regional staff, representatives of VCS Samoa Packing Company and StarKist Samoa, and expert advice from Dr. Dorothy Soule, Dr. Mickie Oguri and Dr. J.J. Lee has been productive over the many years spent in developing this permit.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,



Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures (5)

cc: Dyke Coleman, American Samoa EQC
Pati Faiai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Norman Wei, StarKist Seafoods
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MOST MONEY PAID FOR 1982-1989. PAID FOR OR NOT Call Tom/Andy 415-454-6555

((AUDI/VW))

MOST MONEY PAID FOR 1980-1989. PAID FOR OR NOT Call Tom/Rich 415-456-9040

Best \$ \$ \$ Paid FREE BLUE BOOK SERVICE! WE BUY USED CARS - Call Bud SOUTHCITY DODGE 873-7110

TOP PRICES! OUT OF STATE OK ELLIS BROOKS CHEVROLET 1395 VANNESS AVE. 776-2400

((TOYOTA))

MOST MONEY PAID FOR '1982-1989. PAID FOR OR NOT Call Tom/Andy 415-454-6555

ALL Austin Healeys, Jags, MG's, Triumphs WANTED! DEAD OR ALIVE!! Contact Cash Buyer. DUANE, 481-0442

BMW '89 - HIGHEST PRICES PAID FOR YOUR CLEAN BMW ANY YEAR. Call Jake Bronson BMW CONCORD 682-3577

((MBZ Volvo Toyota))

When you find out what we pay, why sell yourself. 415-454-4378

MERCEDES



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

04 MAY 1990

Editor
San Francisco Chronicle
950 Mission St.
San Francisco, CA 94103
Attn: Legal Advertisement

RE: Printing of the Public Notice for an Ocean Dumping Permit

Dear Sir;

Enclosed is a copy of a public notice for revised applications for two Special Ocean Dumping Permits, OD 90-01 for StarKist Samoa, Inc. and OD 90-02 for Samoa Packing Company, by the U.S. Environmental Protection, Region 9.

Please schedule the enclosed public notice to appear in the Classified Advertisement, Legal Notice section, of your newspaper on 07 MAY 1990 for one time only.

Upon issuance of the public notice in your newspaper, please provide our office with two affidavits or proofs of publication. The two affidavits and a copy of the advertising order should be sent to:

Mr. Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
1235 Mission Street
San Francisco, California 94103

If you have any questions on in this matter please call Mr. Cotter at (415) 705-2162.

Sincerely,

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

04 MAY 1990

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Janet Hashimoto, Acting Chief
 Wetlands, Oceans and Estuaries Branch

CONCURRENCES							
SYMBOL	E-4	E-4	ORC	W-7-1/W-7			
Enclosure							
SURNAME	myones	Lovejoy	Chen	Hashimoto			
DATE	4/25/90	4/26/90	4/26/90	also for Perspective			
				4/27/90			

ADVERTISING ORDER

ORDER NUMBER AR0022

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

DATE

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IX

5-3-90

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

San Francisco Chronicle, 814 Mission St., 5th Floor, San Francisco, CA 94103

SUBJECT OF ADVERTISEMENT

Public Notice AS-90-01 & AS-90-02

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

One Time Only, 5-7-90

DATE(S) ADVERTISEMENT APPEARED

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.
ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

For further information contact: Patrick Cotter, (415) 705-2162 or Pat Young

COPY FOR ADVERTISEMENT

(415) 556-5069

SEE ATTACHED.

Accounting Data

CC10-14	DCN CC15-20	ORDER NO. CC21-30	ACCT. NO. CC31-40	OC	ESTIMATED COST	
501	AR0022	0000AR0022	0A4909L000	2540	\$4,000.00	N

AUTHORITY TO ADVERTISE

NUMBER

EPA Order 1210.5a

DATE

December 13, 1973

SIGNATURE OF AUTHORIZING OFFICIAL

[Signature]

INSTRUMENT OF ASSIGNMENT

NUMBER

N/A

DATE

N/A

TITLE

Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC.
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-6576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 3:00 p.m., November 15, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to
U.S. Environmental Protection Agency

Financial Management Office (P-4)

1235 Mission St., San Francisco, CA 9410

IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

VOLVO '72 144E, A/T, A/C, new
brks. \$1K/1b. 736-3646 lv mss.

VOLVO '67 P1800S. Runs perfect.
Weber carb, air/fm cass, AC.
Immaculate! \$9500 331-0717

VOLVO '66 122S. 156K. Rbit eng,
front end, etc. \$2500. 949-0320

VOLVO '64 P1800. 4Speed. \$750.
Call 254-5820 Evenings

VW '90

ALL MODELS

FLEET PRICES TO PUBLIC!
NO BROKERS!
NO MIDDLE PERSON!
FLEET MANAGER: 800-882-6805

VW '90 CAMPER: Custom Built
Converts To 7 Passenger
\$5000 OFF ON ACCESSORIES
We install Perfection Pop-ups
Ford Chrysler & Chevrolet Vans
COUNTRY HOMES 400-438-4400

VW '90 '89 CLOSEOUT SALE!!
BROADWAY VW
Authorized Factory Outlet
Call Us Today At 834-7711

VW '90 - '82 FLEET PRICES
HUGE SELECTION OF Used VW's
BOB LEWIS VW - 1560 North 1st
Vw Hotline - 400-453-8800

VW '89 Golf, 15K hwy mi, white,
gray intr., GTI eng. \$8800 firm
John, 924-782

VW '88 Jetta Carat. 4 Dr. SL Snrf.
Air Cond. Loaded #2KCH167
\$11,588

PUTNAMMAZDA Burl 347-4800
VW '88 Jetta Carat. 4 Dr. SL Snrf.
Air Cond. Loaded #2KCH167
\$11,588

PUTNAMMAZDA Burl 347-4800
VW '88 Jetta 4 Door, 5 Speed,
A/C, Cassette. \$8495 + fees.
#026561. Dir 415-937-6500

VW '88 Fox GL, silver 4 dr, cass.
21k. Exc. #6425/bv. 861-5605

VW '88 GTI 16v. AC, CC, white,
23K mi. #9400/B. 837-2532

VW '88 Scirocco. 16 v. Sport Pkg.
AC, Snrf, A-I \$9495. 355-0737

VW '87 Scirocco 16V, 1 owner,
red & ready. HURRY! #2GKN126
\$7,588

PUTNAMMAZDA Burl 347-4800
VW '87 Convertible. Low Miles.
Auto Trans, A/C #3034. \$12,495.
ELLIS BROOKS CHEV-NISSAN
776-2400

VW '87 Scirocco. 5spd, 16 valve,
snurf, exc cond., new tires
\$7900. 524-1159

VW '87 Scirocco. 16V, 5spd, A/C,
lthr, snrf, alloys, PS, low mi.
A-I. \$6900. 797-6512

VW '87 Cabriolet. Mint. 27K mi.
\$10,990. Call now 234-0556

VW '87 Scirocco 16V, 19K, many
extras, sharp. \$9800. 863-0185

VW '87 Jetta GLI 5 sp. SK
loaded, \$7800 826-8838

VW '87 Quantum Wgn. Must sell
by 5/13. #4988/B. DR 383-6245

VW '87 GTI. 16V, 5-Spd, alarm,
38K mi, warr. \$9500. 521-0119

VW '87 GTI. White, fully loaded
exc cond \$8750 SF Mir 563-4555

VW '86 GLI. Runs excellent VG
cond. 51K mi. A/C, Snr, new wh/tires.
Alarm. \$7,500. Paul.
673-6927; 924-6616 eves

VW '86 Scirocco. 16v, BIK, A/C
Snrf, New Stereo, Cliché &
Trans, Alloy wheels, Rear
Moving. \$8400. 239-8972

VW '86 SCIROCCO "Black &
Beautiful" #7995. #0201/1
S&K TOYOTA 889-7100

VW '86 GTI. Red, snurf. pb, air
black leather seats, stereo w/
amp. \$6500/b. 822-6749

VW '86 Vanagon GL Excl. cond.
Clifford alarm, Sony pull-out
\$9500/B. 585-4305

VW '86 JETTA Auto Sunroof.
Loaded. 50K miles. \$6750
348-0690 OR 637-9155

VW '86 GTI. Exc. loaded, snrf
cass, acc. \$5300/b. 861-8952

VW '86 JETTA, 44K mi, 5spd
BIK/BIK. \$6695/b. 383-4007

VW '86 Golf New tires, 4dr, warr.
Good cond. \$5300. 751-4959

VW '86 Golf, met. silver, 2dr, srvs
rcds. Exc. Cond. \$3900. 387-8664

VW '86 Cabriolet. Red. 60K mi
great cond. \$9100. 574-1858

VW '85 Convertible. Lo Mi, White
& Bright. HURRY! #IMTH940
\$7988

POTNAMMAZDA Burl 347-4800
VW '85 Cabriolet. Top cond in
out, 1 own, Ssp. \$8300. 221-6941

VW '85 GTI. BIK, SR, gd cond. Must
sell now \$6500. E-F 648-8326

VW '85 Cabriolet. Conv. Wht
Loaded, 70K MI, \$7K/b. 345-5421

VW '85 Cabrio. Trip w/ht. 4dr. 8pm
Cliff alarm. \$5K 821-1754 aft. 8pm

VW '85 Scirocco. Snrf, 5sp, ac
Blaupunkt. \$4400/b. 930-0526

VW '85 JETTA, "Excl cond. BIK"
phone, \$4900/b. 932-0127

VW '85 Jetta GLI. 48K. AT. AC
snrf. Exc cond \$5900. SOLID

VW '85 Scirocco Snurf. Only \$6K
Exc. in & out. \$4400. 753-3408

VW '84 Quantum Wgn. Men.
(A15) 921-5958. See me at Used
Autospxo, 5-12/13, Candlestick

VW '84 Jetta GLI. 4dr, snrf, 5sp
ac, alloys, no tires, excl cond.
75K mi. \$4995/b. 345-4650

VW '84 Wolfsburg Rabbit.
78K. 5 Spd. AC Snrf. Very
Clean. \$2900. 296-9522

VW '84 Cabriolet. New eng, tires
brks. Clean. \$6995. 666-6361

VW '84 Rabbit. 52K mi. 5Spd
\$2900. 775-8513. 235-7107

VW '84 GTI. BIK, 61K mi, snrf
alarm, Immac. \$4300. 363-4068

VW '84 Cabriolet, perfect cond,
beauty. \$7500. 332-4143

VW '83 CABRIOLET. Perfected
Cond. AT. White. 88K mi. \$5800
681-4600. 952-4558

VW '83 GTI. Black. snrf, 5 spd
stereo, 1 owner. great buy
\$3700. 523-2491; 570-6444.

VW '83 GTI. 88K, 5sp. BIK. SR
\$5300/b. CLEAN! 921-8138

VW '82 Rabbit Convertible. Ne
top, tires, mag.s. Hi perf.
lowered, Alpine stereo, black
exc gond. \$5K. SOLD

VW '82 Quantum GL. PW, PB, p
no tires, \$3850. 332-8617

VW '82 JETTA. 5-spnd, 45K n
new clutch. \$4000. 753-3303

VW '82 Rabbit conv. Blk. Lo M
New top & ster. \$5700. 928-5990

VW '82 CABRIOLET CONVERT. E
cond. \$4975. 843-2518; 428-2343

VW '82 Rabbit Conv. Red af
Well loved. \$5000. 925-9259

VW '81 Rabbit. Diesel. Good co
Immac inter! \$1100. 566-8720

VW '81 Rabbit Conv. BIK, new t
5 spd. \$5000. 334-2818

VW '81 Scirocco SP, gray, 5sp
Exc. Cond. \$2500. 574-8772.

VW '80 Cabriolet, green, 5Sp
new clutch, battery, shock
etc. Good cond. in/out. \$4700
BV. 707-795-7443; 415-386-671

VW '80 Rabbit Conv. 5spd, 108
miles, new top, excellent con
owner. \$2500. 457-7494

VW '73 Super Beetle. Runs great. Owner. \$1000. 664-9686 Jackie

VW '73 Bug. Runs, needs minor bodywork. \$450. SOLD

VW '73 Squareback. Runs great. \$899/BO. 524-4870

VW '73 S.Beetle. Lots new. Lk/ runs grt. \$2500/bo. 474-5433

VW '73 Bug Conv. new top/ paint, rebuilt eng. \$4500/bo. 254-1463

VW '73 Karmann Ghia Exc bdy/ eng nu brks/pnt \$2995 528-8203

VW '73 Sqbk. Good cond. 67K. \$1200. Rob Slaven, 425-1260

VW '72 Bus. \$600. 323-8916

VW '72 Karmann Ghia Orig Owner Exc cond. \$4500. Dir. 563-4555

VW '71 Low Top Camper. New eng, ads, trans. \$600. 845-2468

VW '71 Van. Lo.mi. Very nice car. Exc. cond. \$1800/bo. 285-4935

VW '71 Super Beetle, new top/ tires. \$3750. SOLD!!!!

VW '71 Squareback. Runs great. \$600 Call 921-4278

VW '69 K.Ghia, new red paint/ trans. Stereo. Gd cond. \$3395. 563-8082

VW '69 Convrt. Red/White top. rbt eng. \$4000/BO. 841-2421

VW '68 Bug Body only, \$250/BO. Gd cond. 922-1092

VW '68 Bug. Runs well. \$495/BO. D-627-9525 E-348-7631

VW '68 bus, camper, eng. ex. cond. runs great. \$900. 337-5302

VW '67 Bug good cond. needs paint \$1800/BO. 583-3898

VW '67 K-Ghia. A classict Am/Fn. Ex cond. \$3100. 707-792-2790

VW '67 Bug, reb. eng., new clch. Runs grt. \$1500/ firm. SOLD

VW '67 Bug. New motor, paint, brakes. \$1750/bo. 431-3613

VW '66 Bus. 13 window dxr. Incl. Safari. Rf rack. All orig. \$2850/BO. before Spn. 209-464-4415

VW '65 Bug. 80K orig. mi. \$2500/bo. 652-3632, John

VW '63 Bug convertible. Asking \$5500. 697-6128

YUGO '88 Gv, 27K mi, grt cond, stur, must see \$1700. 349-3494

YUGO '88. Asp. H/B. Clean. 9K. Runs great. \$2300. 334-3253

LATE MODEL VEHICLES
EX-PATROL UNITS-PAINTED
Smog cert.-Safety inspected
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CALL (415) 732-0267

884
LIMOUSINES

CADILLAC '85 6-pass. Stretch, TV, VCR, stereo. Excl Assume 196. 209-465-8675 days:
916-393-5441 after 6pm eyes

CADILLAC '76 Formal, burgundy w/bk top, elec. divider window, dxr, bkr thr & plush int. Pvt. owner. \$2500/BO. 664-2557

CADILLAC & LINCOLN '84 & '86 stretch. 408-624-1717

CADILLAC '85 stretch, wht/wht, all extras! \$16K/bo. 491-4305

CADILLAC '84 Stretch, White, loaded, excl. \$13K. 827-2054

LINCOLN '85 Stretch. Exc. cond. 39K mi, loaded, \$14K. 827-5657

885
COLLECTORS CARS

ABARTH '70 SOLD

'34 FORD STREETROD 283

'57 CHEV. BELAIRE HT. EXC.

'61 MERZ 190SL. THE BEST

'56 CHEV. NOMAD 327/AUTO

'61 VETTE. FULL REST.

'76 PORSCHE 912E. RARE.

'52 MG TD. GOOD COND.

'39 MERC. CONV. MINT. RARE!

'55 T-BIRD. FLAWLESS

'64-'66 MUST. CONV. (6995)

'66 FORD A1. ORIG. \$800

'63 VETTE GP. EXCEPTIONAL!

'62 CHEV. RED IMPALA CONV.

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Plus Other Exotics In Stock!

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ALFA ROMEO '74 or earlier

WANTED. Any model, any condition. 408-395-1060

ALFA ROMEO '69 round tail runs/excmt \$5950/bo. 591-6767

ALFA ROMEO '63 Giulia Spd. needs restoration, running cond. \$6,500. 408-374-5557.

APOLLO '62-'65 GT wanted. 415-222-2124

AUSTIN HEALEY or MB 190SL

WANTED. Any condition. 427-0430

AUSTIN HEALEY '63 3000 MI. (restd. Orig. Ck bk plate \$18,500

CABRIOLETT INTERN'L. 644-8095

AUSTIN '60 English Taxi. Complete car. \$500/BO. 467-0735

AUSTIN '55 CAB \$16,500

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SPECIALTY SALES

CADILLAC '62 Conv., Air \$24,500

CAMARO '68 CONV. 55 \$9,800

CHEVY '56 CONV. V8, At \$23,500

CHEVY '41 COUPE, Rest. \$6,800

VETTE '75 17K MILES \$17,800

VETTE '69 B/C-Correct \$24,500

VETTE '69 B/C BIK 4 Spd. \$17,500

FORD '31 A' COUPE. \$4,700

FORD '64 CONV. GALAXIE \$7,800

PONTIAC '57 Restd. Hemi \$8,500

PONTIAC '65 GTO \$20,800

ROLLS '67 S/SHADOW \$110,000

TRIUMPH '74TR-6 \$6,700

VOLVO '71 P1800 REST. \$5,800

VW '61 BUG CONV. RED \$5,800

**** APPRAISALS ****
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35 Miles East of San Francisco
Mon-Fri 10-8, Sat-Sun 10-6

BENTLEY '55 S-1. Runs, needs brake job. \$7500. 462-7943

BORGWARD '59 Isabella Wgt. Restorable, runs \$4500. 332-8432

BORGWARD '58 Kombi. Rare 2 wgn. \$2900. Show every Sat. Sun 2-4 til sold. 530-374 Ave. S.

BUICK '65 Electra Convert. MINT. 80K mi. \$7499/restd. 796-9747

BUICK '65 Riv. 33K Orig. MI. Muz. Sell. \$7800/BO. 759-7121

BUICK '64 Electra 225. conv. bdy clean, runs gd. \$3800. 430-3552

BUICK '53 4 dr. \$750. Buick '78 Riv. \$3500. B/O. 357-8389.

BUICK 1930, 2dr Coupe, Series 50, 95% perf. restored. Less than 400 orig. mi. Navy Blue. Bk. \$10,000. 415-331-7297 or 916-587-8464

CADILLAC '76 Eldor. Conv. 9.8 Perf! \$18K. 861-3500, 435-5671

CADILLAC '66 Convertib d/Ville. Looks & runs very good. \$5500 381-5616

HEVROLET '29 Sedan, Stock, \$5000.
 Best offer. 707-642-9612
CHRYSLER '68 300. 2DR Hard
 top. Classic. 440 V8. Eng. cond.
 \$3800. 283-9140, 736-6933
FERRARI '37 4dr Royal \$4000/
 60. Needs work. 584-2756
CITROEN '73 SM \$3800.-
 Bay West. 707-526-5151
CORVETTE '64. Red. Orig. Cond. Hd
 top. 327 4sp. Mint \$29K. 829-7448
CORVETTE '63 CONVERTIBLE
 Both Top & Original Motor.
 Red on Black. #3412
 \$24,900
 25 VETTES IN STOCK
 Park Performance 408-263-2067
CORVETTE '57 BLK/SLV-OR
 COVES, Red,Int., 24BBL - Show
 Winner. 463-9510 or 831-0799
CORVETTES '53-'55
 CORVETTE REPLICAS KITS
 Easy To Assemble - Full Sized
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DATSUN '70 240Z Own a classic.
 All recpts. \$3000. 655-2725 evs
DODGE '66 Charger 318 auto.
 Needs body wk. \$1950. 451-4844
DODGE '62 Chgr. V8, 4BBL, 2dr
 H/T Conv, auto. \$2995. 776-1571
FERRARI '69 365GT 2+2. Stored
 12 yrs. 1st \$9000. 454-8851
FORD '87 Mustang Saleen, No.
 85, 18,000 mi. Like new. \$16,500.
 916-456-8736
FORD '77 Mustang Ghia, V8,
 mint, lo mi. \$4000/BO. 548-3741
FORD '73 Mustang conv. Red/
 wht, V8, fact. air. Value \$13,000,
 sell \$8995. Retiring. 944-0346
FORD '69 Mustang Conv. Orig
 owner, orig top, paint, & int. V8,
 351. Eng. cond. \$10K. 775-3205
FORD '68 Mustang, Black, David
 (415) 337-8176. See me at Used
 Autoexpo, 5-12/13, Candlestick
FORD '68 MUSTANG 289 low
 miles. \$5000. 647-0355
FORD '67 Must Conv V6 3sp restr.
 Grt cond! \$7500 firm. 673-2648
FORD '67 MUSTANG Cherry!
 67K orig. mi. \$4250. 830-8647
FORD '66 Mustang
 WANTED '64-'70 Must. Top \$ pd.
 Private Party. 408-985-6652
FORD '66 Mustang, Burg. Mike,
 (415) 228-1864 See me at Used
 Autoexpo 5-12/13, Candlestick
FORD '66 Must F/B, at ps, red-
 red-red, showrm cond, see to
 believe, \$8400, 408-370-6326
FORD '66 T-Bird. Landau. 60K
 orig. \$3500. 332-8172
FORD '66 Must V8, 3 spd, no rust,
 exc cond. \$3700. 387-8334
FORD '66 Mustangs (30) '64-'68
 15 CONVERTIBLES \$200-206
FORD '65 Mustang, Kt Fastback.
 Hi-performance, M-model. Pony
 interior. 100% restored.
 \$19,000/BO 916-677-7138
FORD '65 MUSTANG 289 2dr. HT.
 Good cond. \$3800. 359-7889
FORD '65 T-Bird. All new! Cherry.
 \$10,000/BO. 649-0928
FORD '64 Travelwagon Econo-
 line. Poptop, auto. \$5000 orig. mi.
 #. \$4350. 707-629-6300
FORD '64 1/2 Must. Rest. project,
 new front end/clch/rear carb.
 Runs good. \$3K/BO. 897-6693
FORD '64 1/2 Must Fsbk. Nds
 some bod wrk \$3500/bo 454-0555
FORD '63 T-Bird clean, white/
 blue new tires, tires, shocks
 \$3900. D/ 773-3587; E/ 331-7140
FORD '62 Falcon Ranchero, com-
 plete or parts. \$350. 332-8431
FORD '58 2dr Custom 300, 64
 Lincoln /Ford/Trans. PS, PDB.
 Runs & looks great. Very fast.
 \$4500 or part trade. 538-7467
FORD '57 Retractable, top exc. E2
 restoration. \$6K/bo. 352-1261
FORD '57 - '55 T-Bird. 1960
 Car/parts to bid. Orig. 655-1381
FORD '56 T. Bird, Orig. Calif. Car
 Fun ride. 591-9941 / 373-6653
FORD '47 Pick-up, all orig, good
 body. \$1500. John. 592-7215
HUMBER '59 SUPER SNIPER
 (British) Maroon. In daily use
 xtra prts car. \$4K \$50-9462
JAGUAR '64 XKE Cpe. Red, Nice
 Rare Srf, 22200. 948-0577
JAGUAR '60 Mark IX, orig. per-
 fect, a dream, \$15,000. 332-4143
JAGUARS WANTED! Any XK &
 XKE. Ultimate Top \$5555 Paid
 JAG BROKER (408) 745-0392
LAMBORGHINI '64 JALPA, Red,
 Blk, 41 mi, \$75,000 Prvt. Party
 Days 463-9510, Eves, 831-0799
LINCOLN '73 ZAGATO convertible
 Targa top, firm. Every mile, must
 see! \$4200, firm. 865-8833
LINCOLN '66 conv. New top
 Loaded. Ex cond. \$5K. 889-0405
LINCOLN '66 Conv. Suicide Drs.
 clin, slick, rns gd. \$6500. Yrs
 may see M-F, 9-5, at: Jim's Cust
 Auto Upholstery, 15608 E
 14th St., San Leandro.
LINCOLN '64 Continental Ex
 cond. \$3500/BO. 415-952-7453
LINCOLN '64 Cont., low mi, rns
 exc, sac. 1st \$3K. 233-8104
LINCOLN '62 Continental Sdn
 Cond., matching thr, PS, PWB
 Pseat, PDL, all orig, rebuilt
 trans. \$2450/BO 826-4364
LOTUS '78 Esprit Fresh valv
 grind. New int. 27K mi. Very
 clean. \$16,500. 415-494-1785
LOTUS EUROPA '72 Twin Cam
 very nice. \$9500. 916-223-6647
MERCEDES '73 1.5 Convertible
 *280SL * 190SL * 220SE Conv
 SHOWROOM 408-554-1555
MERCEDES '63 220 SEB Cpe
 Clean & sharp. New Eng. Srv
 w/tan. Strk. \$8500. 415-494-1785
MERCEDES '29 REPLICA Fast
 value \$11,500. Invested \$8000
 2 tops, curtains, 4K mi. \$8000
 bo/trade. 916-797-0361
MERCURY '59 Cougar XRL 351
 Eng. Runs Grt. \$3K/bo. 355-9333
MERCURY '47 COUPE, Black
 Beige, Totally Restored, Mint
 \$12,950/Or. Dr. 595-7800.
MG '66 1100, all original, good
 cond. \$1000/bo. 841-8005
MG '60 1600 series. V. Good
 cond. \$8000. 209-368-9777 / 369-2910
MGA '56 Roadster. Chgr. Conv.
 Clean, straight, rust free, most
 ly restor. \$10K 916-737-1447
MGB '77 160 orig. mi. Absolute
 perf. \$6500 auto. 408-985-7833
MGB '68 GT, green, new lthr, Tr
 cond. Ask \$7000. 775-1705
MINI COOPERS (2) Fresh tot
 restorations. \$7000 & \$10,000
 408-787-0845 408-394-7483.
MORGANS:
 LOTS OF MORGANS IN STOCK
 FERRARI OF LOS GATOS
 (408) 354-4000
MORRIS MINOR '59. Good
 cond. \$1500. 453-1871
NASH - HEALEY '53 Roadster
 Coupe as a pair only for restoration.
 \$16,500. 593-9427
OLDSMOBILE '51 98 Holiday, 2d
 hrdtop, Rocket V8, 1947, orig.
 runs well \$3K/bo. 944-4708

...Auds. Ask for Jim Bishop
456-5120

ROLLS, JAGS WANTED! Buy or
consign. SF showrm. 928-1212

TUDEBAKER '64 Lark, 4dr,
cruiser, Exc. Cond., Runs Great,
1 owner. \$1950. 441-0847

TUDEBAKER '64 Lark, 2 dr, v8,
3 sp, OD, 63K mi. \$1350. 363-1118

TUDEBAKER '62 Lark htd top,
beut Chry \$3200 480-559-0856

RIUMPH '73 Stag, auto, wire
whls. 65K, nice! \$6500. 848-4553

RIUMPH '72 TR6. White, w/
brand new interior. Never dam-
aged. \$3900. Sold!

RIUMPH '71 TR6, 4 sp, O/D,
Good cond. \$4,000. 707-224-8038

RIUMPH '57 TR3. Needs rest,
complete. \$3500/bo. 344-7780

RIUMPH '54 TR2 Long door,
Putnia pink. Nds restoration.
\$10,000. 805-929-1260

OLVO '71 P1800E Coupe. Runs
great. Nice. \$4000/BO. 752-4374

OLVO '83 122S. Restrd Beauty!
\$5700/bo 521-3950; 523-1413

IW '69 Conv, 22K on rebilt eng,
60K on rebilt 4sp, 4yr old top, origi-
own gd cond \$4500/bo 897-4484

IW '68 R-Ghia, Like nu. Must see
\$6900. Must sell. 916-332-0884

IW '67 Bug, show cond, 12V, tan,
perf. in out. \$6000/bo. SOLD!

IW '56 Rag Top, orig cond, super
clean \$4200/bo. Randy 820-4829

IW '55 P1, Not running, Need
restoration, \$650. 528-2066

IW '54 Ragtop, Mint. \$6500. Will
show every Sat/Sun 2-4pm till
sold. 530 3rd Ave. SF. 752-0189

ILLIS '46 Jeep CJ2A. Orig.
No rust. Extra parts. Chry's! \$3450
209-962-5622

IF YOU Find A Car In This Column
You Like, We Can Lease It To You
LIBERTY LEASE 364-7100

For The Best Deal To Lease
The Collector Car Of Your Choice
ADDITION FINANCIAL - 886-1404

**887 HOT RODS &
RACE CARS**

FORD '90 MUSTANG 6.9% A.P.R.
SALEEN

S & C FORD
2001 Market St., S.F.
861-6000

INVADER '88 Racing Kart, En-
duro, Yamaha KT100S, fresh
motor & clutch, full body work,
clean w/ starter, Go racing To-
day! \$1500/bo. 758-5467

PONTIAC '67 GTO, hi perf, 4spd.
muncil 41k pos, smoged, mon-
ster vehicle. \$4K. 587-5646

Camaro, Race T/S4, Tubbed
ProStreet, S/H, 4WB, too
much to list. Minus motor,
\$5500. Dave 344-3281

**889 MECHANIC'S
SPECIALS**

HONDA '78 Civic. Needs engine.
New tires. \$325/bo. 755-7347

RENAULT '84 Exc cond, needs
transm. \$500/bo. 457-6174.

**890
AUTOS WANTED**

WANTED: YOUR CAR
ALL MAKES & MODELS.
TOP DOLLAR FOR YOUR CAR
PUTNAM BUICK
50 Calif. Drive Burlingame
(415) 342-4321

'57 -'63 TBirds, ragtops, any
cond. '55-'65 convertible Cor-
vettes, any cond. '65-'66 con-
vertible Mustangs, any cond;
'59-'63 convertible Cadillacs,
any cond. We will pay shipping
fees. Top dollar paid.
213-562-5642

**WE WANT YOUR
CAR**
HIGHEST PRICES PAID!
FORREST FAULKNER, 347-2400
BAY AREA'S LARGEST DEALER
Will pay a Fair and Honest Price
for your Good Used Car.
CALL RON FIELDS
861-3134

S&CFORD 2145 Market S.F.
WE BUY ALL TYPES OF USED
VEHICLES! Cars-Trucks-Vans!
Paid for or **NOT CASH ON THE**
SPOT! MELODY TOYOTA, 750
El Camino Real, San Bruno
873-8800 and 589-2313

((BMW Wanted))
MOST MONEY PAID FOR
1980 - 1988. PAID FOR OR NOT
Call MIKE/JIM 415-388-2750

((ACURA/HONDA)))
MOST MONEY PAID FOR
1982-1989. PAID FOR OR NOT
Call Tom/Andy 415-454-6555

((AUDI/VW)))
MOST MONEY PAID FOR
1980-1989. PAID FOR OR NOT
Call Tom/Rich 415-456-9040

Best \$\$\$ Paid
FREE BLUE BOOK SERVICE!
WE BUY USED CARS - Call Bug
SOUTH CITY DODGE 873-7110

TOP PRICES!
OUT OF STATE OK
ELLIS BROOKS CHEVROLET
1395 VANNESSAVE. 776-2400

((TOYOTA)))
MOST MONEY PAID FOR
1982-1989. PAID FOR OR NOT
Call Tom/Andy 415-454-6555

ALL Austin Healeys, Jags, MG's
Triumphs! WANTED! DEAD OR
ALIVE!! Courteous Cash Buyer
DUANE, 481-0442

BMW '89 HIGHEST PRICES
PAID FOR YOUR CLEAN BMW
ANYEAR. Call Jake/Brson
BMW CONCORD 682-3507

((MB Volvo Toyota)))
When you find out what we pay
why sell yourself. 415-454-437

MERCEDES '88 - '80
Buy/Consign/Top 5 of Your MB!
Discount Auto Center, 593-041

CAVANAUGH MOTORS
'We Buy Chrysler Products'
ALAMEDA 523-524

DON'T TRADE IT! We'll Pay More!
For Low Mileage Cars! AVENUE
MOTORS! 1615 Pine SF. 928-1211

WANTED: Clean used cars
E-Z DAVIES CHEVROLET
'Top Prices Paid' 369-0331

WE PAY MORE CASH FOR
CLEAN LOW MILEAGE CARS
4249 Geary MENZIES 752-470

AUSTIN H. Jags, Excotics, TR3, MB
Cads, 356, KG, Conits 743-0720

PROSCHE 911 2.4T eng w/mech pump fuel inj. \$1000; misc 2.0 eng parts \$50-\$200. \$556-9695
PROSCHE 911 Alloys-7x16, \$325 ea; 911 A/C, \$300; 914 seats-perfect, \$100 ea. 364-9590
WANTED 6 cyl. Motor for '62 Rambler or a good mechanic to rebuild. Johnnie, 799-9894
BMW tank vinyl seats, 90 model, unused, \$500. 324-8640
'68 Car Trailer, 7,000 lb. capacity w/winch. \$1200. 941-7044
MEVY, Eng. 454, long block \$500. 941-7044
'80 428 Cobra Jet motor, comp. \$750. 209-722-4103 ask MIKE
ORVETTE '63 fuel injection unit. \$5K. 707-762-3695
ORVETTE Hard Top '56-'60. \$2500. 707-527-0335
ORD 289 eng 275-300 hp Extras 2000 miles. \$500. 596-2202
 'Ford 4.10 Posi, 28 Spine, 225. Dave 344-3281
ORD Taurus Mags with Michel in tires. \$450/BO. 673-2122
AGUARE ENGINE, overhauled, zero mil Wrenty. \$2650. 441-2222
HGB 2 Front fenders & 2 rear quarters \$100/ea. \$50-7665
OLYMOOTH 70 340 Buster parts rally dash, 727 88. \$500 348-1539
ORSCHE Whale tail, incl trunk lid \$750. 952-3170, 342-3170
RENAULT '83 Relevance, not running. \$400. 333-1210
'72 IROC Doors \$250/ea. Rear window \$350. 550-7265 eves.

**900
PUBLIC NOTICES**

THE ANNUAL REPORT of the James Irvine Foundation for the year ended 12-31-89 is available for inspection on request in the principal office of the foundation, 1 Market Plaza, Spear Street Tower, Suite 1715, San Francisco, CA 94105, phone (415) 777-2244, during normal business hours and for a period of 180 days from this notice. M. Du Bain, CHAIRMAN

**CHRONICLE
WANT ADS**

**900
PUBLIC NOTICES**

**DEPARTMENT OF
TRANSPORTATION**

**NOTICE TO CONTRACTORS
THIS IS AN INFORMAL BIDS
CONTRACT**

04-SF-480-0.0/0.7

Sealed proposals for the work shown on the plans entitled: **STATE STREET, SAN FRANCISCO, DEPARTMENT OF TRANSPORTATION; PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO FROM FOURTH STREET TO MAIN STREET** will be received at the Department of Transportation, 1120 N. Street, Room 39, Sacramento, California 95814, until 10 o'clock a.m. on May 18, 1990, at which time they will be publicly opened and read in the Assembly Room at said address.

Proposal forms for this work are included in a separate book entitled: **STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION; PROPOSAL AND CONTRACT FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO FROM FOURTH STREET TO MAIN STREET**

General work description: Earthwork repair and retrofit.

This project has a goal of 12 percent disadvantaged business enterprise (DBE) participation. No pre-bid meeting is scheduled for this project.

THIS PROJECT IS SUBJECT TO THE "BUY AMERICA" PROVISIONS OF THE SURFACE TRANSPORTATION ASSISTANCE ACT OF 1982.

The time limit specified in the special provisions for the completion of work contemplated herein is considered insufficient to permit completion of the work by the Contractor working a normal number of hours per day or week on a single shift basis. It is expected that additional shifts will be required throughout the life of the contract to the extent deemed necessary to insure that the work will be completed within the time limit specified.

Full compensation for additional costs occasioned by compliance with these provisions shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

Bids are required for the entire work described herein.

At the time this contract is awarded, the Contractor shall possess either a Class A license or a combination of any of the following license classifications which constitutes a majority of the work: C-8, C-32, C-50, C-51.

This contract is subject to state contract nondiscrimination and compliance requirements pursuant to Government Code Section 12990.

Plans, specifications, and proposal forms for bidding this project can only be obtained at the Department of Transportation, Plans and Bid documents, Room 39, Transportation Building, 1120 N Street, P.O. Box 942874, Sacramento, California 94274-2874 (phone 916/445-3325), or at the Department of Transportation, Contract Office, Room 279, District 04 Headquarters, 150 Oak Street, San Francisco, California.

Prospective bidders may make arrangements to visit the closed portions of the freeway structure to be constructed by the District senior at telephone (415) 557-2190.

Plans, specifications will be available at the San Francisco Office during the following hours:

8:00 a.m. to 4:00 p.m., Monday through Friday

The successful bidder shall furnish a payment bond and a performance bond.

The Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded

not printed in said publication.

DEPARTMENT OF TRANSPORTATION
Chief Engineer
Dated April 27, 1990
W41358

DEPARTMENT OF TRANSPORTATION

NOTICE TO CONTRACTORS
THIS IS AN INFORMAL BIDS CONTRACT

04-SF-280-R4 **TUESDAY**

Sealed proposals for the following shown on the plans entitled: **STATE OF CALIFORNIA; DEPARTMENT OF TRANSPORTATION; PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO AND ADJACENT AREAS LOCATIONS FROM 0.1 MILE SOUTH OF CHARTER OAK AVENUE TO 0.1 MILE SOUTH OF 22ND STREET**

will be received at the Department of Transportation, 1120 N Street, Room 39, Sacramento, California 95814, until 10 o'clock a.m. on May 16, 1990, at which time they will be publicly opened and read in Room 1420 at said address.

Proposal forms for this work are included in a separate book entitled: **STATE OF CALIFORNIA; DEPARTMENT OF TRANSPORTATION; PROPOSAL AND CONTRACT FOR CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO AND ADJACENT AREAS LOCATIONS FROM 0.1 MILE SOUTH OF CHARTER OAK AVENUE TO 0.1 MILE SOUTH OF 22ND STREET**

General work description: Repair of earthquake damaged bridges and earthquake retrofitting of a structure to be performed.

This project has a goal of 15 percent disadvantaged business participation. No pre-bid meeting is scheduled for this project.

THIS PROJECT IS SUBJECT TO THE "BUY AMERICA" PROVISIONS OF THE SURFACE TRANSPORTATION ASSISTANCE ACT OF 1982.

The time limit specified in the special provisions for the completion of this work contemplated is considered insufficient to permit completion of the work by the Contractor working a normal number of hours per day or week on a single shift basis. It is expected that additional shifts will be required throughout the life of the contract to the extent deemed necessary to insure that the work will be completed within the time limit specified. Full compensation for additional costs occasioned by compliance with these provisions shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

Bids are required for the entire work described herein.

At the time this contract is awarded, the Contractor shall possess either a Class A license or a Class C-51 license. This contract is subject to state contract nondiscrimination and compliance requirements pursuant to Government Code, Section 29000.

Plans, specifications, and proposal forms for bidding this project can only be obtained at the Department of Transportation, Plans and Bid documents Room 39, Transportation Building, 1120 N Street, P.O. Box 942874, Sacramento, California 94274-0074.

Bids are received, or at the Department of Transportation, Contract Office, Room 279, District 04 Headquarters, 150 Oak Street, San Francisco, California.

Plans and specifications will be available at the San Francisco Office during the following hours: 8:00 a.m. to 4:00 p.m., Monday through Friday.

The successful bidder shall furnish a payment bond and a performance bond.

The Department of Transportation hereby notifies all bidders that if any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Minimum wage rates for this project as predetermined by the Secretary of Labor are set forth in the serially numbered books issued for bidding purposes and entitled "Proposal, and Contract," and in copies of said book that may be examined at the same offices as described hereinbefore where the plans, specifications, and proposal forms may be seen.

Addenda to modify Federal minimum wage rates will be issued holders of the above referenced books. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the prevailing wage rates determined by the State for similar classifications of labor, the Contractor and his subcontractors shall pay not less than the higher wage rate.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county in which the work is to be done has been determined by the Director of the Department of Industrial Relations. These wage rates appear in the Department of Transportation publication titled General Prevailing Wage Rates, dated April 1990. Future effective wage rates which have been determined and are on file with the Department of Industrial Relations are referenced but not printed in said publication.

DEPARTMENT OF TRANSPORTATION
Chief Engineer
Dated April 25, 1990
W41326

DEPARTMENT OF TRANSPORTATION

NOTICE TO CONTRACTORS
THIS IS AN INFORMAL BIDS CONTRACT

04-Ala-80-2.4

Sealed proposals for the work shown on the plans entitled: **STATE OF CALIFORNIA; DEPARTMENT OF TRANSPORTATION; PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY IN AND AROUND CROSSING**

will be received at the Department of Transportation, 1120 N Street, Room 39, Sacramento, California 95814, until 10 o'clock a.m. on May 14, 1990, at which time they will be publicly opened and read in the Assembly Room at said address.

Proposal forms for this work are

[illegible]

DEPARTMENT OF
TRANSPORTATION
Chief Engineer
dated April 23, 1990
31366

people everywhere
read the
Classified
MarketplaceSM

PUBLICATION
ED ACTION
NMENTAL
AGENCY (EPA)
N IX
N STREET
W 94103
s for Permits to
p Materials into
aters
olic Notice for
ermit Numbers
OD 90-02
Marine Protection, Research
(MSA), as amended (33 U.S.C.
F.R. Section 222.3 of EPA's
Criteria (42 Fed. Reg. 2462,
by given by this office of
ormits for the transportation
wastes into ocean waters.
ces in the *San Francisco
Samosa News* (Feb. 2, 1990).
e applications to dispose of
received from: STARKIST
d. Long Beach, CA 90802
COMPANY, INC., 100 North
on behalf of their respective
Samosa, Inc., P.O. Box 358,
1998 and VCS Samos Packing
ago Pago, American Samoa
es, Starkist Samos and VCS,
ose to ocean dump wastes
processing plants in Pago
erials to be disposed are fish
of DAF sludge, precooker,
the dilution levels expected
the waste materials are not
long-term impacts to oceanic
s or human health.
n of the newspaper notices,
licants during the comment
to the draft special permis-
ed change in the disposal
STRO, which will be used by
Samosa Packing Company, has
ill allow the applicants to
wastes on each trip to the
Samosa Packing Company
amount of fish processing
from a total of 56,900 gal-
lons per day (see Table 1
es of wastes proposed for
ocean disposal site were
Company's request was
compliance with its National
on System (NPDES) permit
the Clean Water Act. Upon
ests, EPA Region 9 asked the
modeling study to determine
processing wastes could be
vessel at the designated
with EPA's ocean dumping
0-228).
FORMATION AND
TERMINATION
onducted computer modeling
a computer modeling report
on our review of the Modeling
tentative determination to
mit to VCS Samos Packing
of 200,000 gallons per day as
the special ocean dumping
the authorization to use the
). These tentative determina-
ions are based on the
n that the proposed ocean
y with EPA's Ocean Dumping
0-228, provided that certain
y by the Modeling Report, as
bruary 2, 1990 draft special
each of these special ocean
er period.
E 1.
VCS
Samosa
Packing
(gallons/day)
60,000
100,000
40,000
200,000
Total
Permitted
Discharge
(gallons/day)
120,000
200,000
80,000
400,000
ook into account the proposed
sludge, precooker water and
that the Limiting Permissible
sh processing wastes will be
site boundary notwithstanding
as certain other changes are
ms. EPA Region 9 reviewed the
and virtually all of its
PA Region 9's review of the
information provided in the
onitoring date, several changes
1990 draft special permits. In
culated for each regulated
am to take into account three
by the applicants.
ical errors pertaining to the
detected and corrected. The
ously stated to be 1.5 nautical
1990 draft special permits. In
posal site is 1.5 nautical miles
longitude of the disposal site
the 1990 draft special permits
the coordinate published in the
atement, i.e. 170° 38.30' West,
2). For further information on
Final Rule, 55 Fed. Reg. 3948
chnical corrections to the Final
ederal Register, and the Final
ment issued in March, 1989. No
are received.
HEARINGS AND
MENTS
of this notice, any person may
onsider the issuance of, or the
on, these permits. Any such
ust: 1) be in writing; 2) identify
ust; 3) state any objections to
onditions to be imposed upon,
issues which are proposed to
Under 40 C.F.R. Section 222.4,
etermination on whether to
based on whether the request
policy or facts amenable to
he issuance of these permits,
cheduled a public hearing in
on June 7, 1990 at the office of
:00 p.m. However, this hearing
e request is received by the
is made by the EPA Regional
hearing. Persons interested in
should check with the person
the public hearing will be held.
etermination and requests for
determined in writing within 30 days of
o: Mr. Patrick Cotter, U.S. En-
o, Region IX (W-7-1), 1235
o, California 94103, Telephone
which includes the revised draft
is available for public review
a.m. to 4:00 p.m. at the: EPA
on Street, San Francisco, CA,
Island Contact Office, 300 Ala-
e, Honolulu, HI, (808) 541-2710;
o Pago, American Samoa, (684)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

04 MAY 1990

Editor
American Samoa News
P.O. Box 909
Pago Pago, American Samoa 96799

RE: Printing of the Public Notice for Two Ocean Dumping Permits

Dear Sir:

Enclosed is a copy of a public notice for revised applications for two Special Ocean Dumping Permits, OD 90-01 for StarKist Samoa, Inc. and OD 90-02 for Samoa Packing Company, by the U.S. Environmental Protection, Region 9.

Please schedule the enclosed public notice to appear in the Classified Advertisement, Legal Notice section, of your newspaper on 07 MAY 1990 for one time only.

Upon issuance of the public notice in your newspaper, please provide our office with two affidavits or proofs of publication. The two affidavits and a copy of the advertising order should be sent to:

Mr. Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
1235 Mission Street
San Francisco, California 94103

If you have any questions on in this matter please call Mr. Cotter at (415) 705-2162.

Sincerely,

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

04 MAY 1990

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 Pago Pago, American Samoa 96799

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 Region IX (W-7-1)
 1235 Mission Street
 San Francisco, California 94103

If you have any questions on in this matter please call Mr. Cotter at (415) 705-2162.

Sincerely,

Janet Hashimoto, Acting Chief
 Wetlands, Oceans and Estuaries Branch

Enclosure

CONCURRENCES							
SYMBOL	E-4	E-4	ORL	W-7-1/W-7			
SURNAME	Janet Hashimoto	Janet Hashimoto	Exchange Hashimoto	also for			
DATE	4/25/90	4/26/90	4/26/90	Barbara H. Cotter			

ADVERTISING ORDER

ORDER NUMBER AR0023

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

DATE

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IX

5-3-90

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

Samoa News, P.O. Box 909, Pago Pago, American Samoa 96799

SUBJECT OF ADVERTISEMENT

EDITION OF PAPER ADVERTISEMENT APPEARED

Public Notice AS-90-01 & AS-90-02

NUMBER OF TIMES ADVERTISEMENT APPEARED

DATE(S) ADVERTISEMENT APPEARED

One Time Only, 5-7-90

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.

ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

For further information CONTACT: Patrick Cotter (415) 705-2162 or Pat Young

COPY FOR ADVERTISEMENT

(415) 556-5069

SEE ATTACHED.

Accounting Data

DCN	ORDER NO.	ACCT. NO.	OC	ESTIMATED COST	FC
CC10-14	CC15-20	CC21-30	CC31-40		
501	AR0023	0000AR0023	0A4909L000	2540	\$150.00

AUTHORITY TO ADVERTISE

INSTRUMENT OF ASSIGNMENT

NUMBER

EPA Order 1210.5a

NUMBER

N/A

DATE

December 13, 1973

DATE

N/A

SIGNATURE OF AUTHORIZING OFFICIAL

TITLE

Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC,
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-5576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 3:00 p.m., November 15, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to
U.S. Environmental Protection Agency

Financial Management Office (P-4)

1235 Mission St., San Francisco, CA 9410

IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

ADVERTISING ORDER

ORDER NUMBER

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IX

DATE

5-3-90 **AR0023**

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

Samoa News, P.O. Box 909, Pago Pago, American Samoa 96799

SUBJECT OF ADVERTISEMENT

Public Notice AS-90-01 & AS-90-02

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

One Time Only, 5-7-90

DATE(s) ADVERTISEMENT APPEARED

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.
ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

For further information contact: Patrick Cotter (415) 705-2162 or Pat Young

COPY FOR ADVERTISEMENT

(415) 556-5069

SEE ATTACHED.

Accounting Data

CC10-14	DCN CC15-20	ORDER NO. CC21-30	ACCT. NO. CC31-40	OC	ESTIMATED COST	FC
0501		0000		2540	\$150.00	N

AUTHORITY TO ADVERTISE **AR0023 0A49081000**

INSTRUMENT OF ASSIGNMENT

NUMBER
EPA Order 1210.5a

NUMBER
N/A

DATE
December 13, 1973

DATE
N/A

SIGNATURE OF AUTHORIZING OFFICIAL

TITLE
Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC,
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-5576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 3:00 p.m., November 16, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to

U.S. Environmental Protection Agency

Financial Management Office (P-4)
1235 Mission St., San Francisco, CA 9410

IMPORTANT

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In no case shall the advertisement extend beyond the date and edition stated in this order.

CONCURRENCES

SYMBOL	W-7	W-1-A					
SURNAME	Hashimoto	P. Strong					
DATE	5/3/90	5/4/90					

PUBLIC VOUCHER FOR ADVERTISING

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE		For Agency Use Only
PLACE VOUCHER PREPARED		VOUCHER NUMBER
DATE PREPARED		SCHEDULE NUMBER
NAME OF PUBLICATION		PAID BY
NAME OF PUBLISHER OR REPRESENTATIVE		
ADDRESS (Street, room number, city, State, and ZIP code)		

CHARGES

TYPEFACE	(size of type)	POINT PER	(inch, square, word, or folio)																																																		
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AFFIDAVIT

This represents a true billing for the attached advertising order, with specifications and copy, which has been completed.

SIGNATURE OF PUBLISHER OR REPRESENTATIVE

TITLE

DATE

FOR AGENCY USE ONLY

ADVERTISEMENT PUBLISHED IN	DATE PUBLISHED
I certify that the advertisement described above appeared in the named publication and that this account is correct and eligible for payment.	
SIGNATURE AND TITLE OF CERTIFYING OFFICER	DATE
SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION	PAID BY CHECK NUMBER

* If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.

☆ U. S. GPO:1977-0-241-530/3320



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

March 8, 1990

Thomas P. Redick, Esq.
Lillick & McHose
101 W. Broadway, 18th Floor
San Diego, CA 92101

RE: Special Ocean Dumping Permits
OD 90-01 and OD 90-02

Dear Mr. Redick:

EPA Region 9 is in receipt of your letter of February 27, 1990, on behalf of VCS Samoa Packing Co., Inc. (Samoa Packing) and Star-Kist Samoa, Inc. (Star-Kist). By that letter you requested a thirty-day extension to submit comments on EPA Region 9's tentative decision to issue Special Ocean Dumping permits OD 90-01 and OD 90-02 to Star-Kist and Samoa Packing, respectively. This request is based on computer modeling needed to enable EPA to consider the canneries' requests to barge additional high strength wastes to the designated ocean dump site.

This letter is to formally notify you that EPA will allow an additional 30 days for the submittal of this information. Please submit this information to EPA Region 9 no later than April 9, 1990. If you have any questions regarding this extension, please contact Barbara Ettlinger at (415) 556-5865.

Sincerely,

Loretta Barsamian *by BE*

Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries
Branch (W-7)

cc: Pati Faiai, Director ASEPA
Dyke Coleman, ASEQC
Virginia Gibbons, Esq., ASGAG
James McCafferty, Esq.
John Ciko, Jr., Esq.
Dr. Dorothy Soule, SOS Environmental
Norman Wei, Star-Kist Foods, Inc.
James Cox, VCS Samoa Packing

OFFICE OF REGIONAL COUNSEL
FACSIMILE COVER SHEET

DATE: <u>3/8/90</u>	
TO: <u>Loretta Barsamian</u>	
SUBJECT: <u>American Samoa OD Permit</u>	
OFFICE: <u>WMD</u>	PHONE #: _____
FAX #: <u>705-2089</u>	VERIFICATION #: <u>705-2078</u> <u><Lou></u>
FROM: <u>Barbara Ettinger</u>	
PHONE #: (415) <u>556-5966</u>	<u>556-5865</u>
[FTS Prefix 454 -XXXX] 556	

NUMBER OF PAGES, INCLUDING THIS COVER SHEET: 2

Loretta - spoke to Janet about this letter + she approved it. For ease of transmission to American Samoa, if you authorize, I will sign for you like so → Loretta Barsamian by BE. Letter is on my desk + should go out today.
Thanks for your prompt attention.

Barbara 556-5865

3/9/90 Loretta said ok for B. to sign for her as indicated.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

09 MAR 1990

Thomas P. Redick, Esq.
Lillick & McHose
101 west Broadway, 18th Floor
San Diego, CA 92101

RE: Special Ocean Dumping Permits OD 90-01 and OD 90-02

Dear Mr. Redick:

EPA Region 9 is in receipt of your letter of February 27, 1990, on behalf of VCS Samoa Packing Co., Inc. (Samoa Packing) and Star-Kist Samoa, Inc. (Star-Kist). By that letter you requested a thirty-day extension to submit comments on EPA Region 9's tentative decision to issue Special Ocean Dumping permits OD 90-01 and OD 90-02 to Star-Kist and Samoa Packing, respectively. This request based on computer modeling needed to enable EPA to consider the canneries' requests to barge additional high strength wastes to the designated ocean dump site.

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Sincerely,

for Janet Y. Hashimoto
Loretta Barsamian, Chief

Wetlands, Oceans and Estuaries Branch (W-7)

cc: Pati Faiai, Director ASEPA
Dyke Coleman, ASEQC
Virginia Gibbons, Esq., ASGAG
James McCafferty, Esq.
John Ciko, Jr., Esq.
Dr. Dorothy Soule, SOS Environmental
Norman Wei, Star-Kist Foods, Inc.
James Cox, VCS Samoa Packing

Thomas P. Redick, Esq.
Lillick & McHose
101 west Broadway, 18th Floor
San Diego, CA 92101

RE: Special Ocean Dumping Permits OD 90-01 and OD 90-02

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EPA Region 9 is in receipt of your letter of February 27, 1990, on behalf of VCS Samoa Packing Co., Inc. (Samoa Packing) and Star-Kist Samoa, Inc. (Star-Kist). By that letter you requested a thirty-day extension to submit comments on EPA Region 9's tentative decision to issue Special Ocean Dumping permits OD 90-01 and OD 90-02 to Star-Kist and Samoa Packing, respectively. This request based on computer modeling needed to enable EPA to consider the canneries' requests to barge additional high strength wastes to the designated ocean dump site.

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Sincerely,

Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries Branch (W-7)

cc: Pati Faiai, Director ASEPA
Dyke Coleman, ASEQC
Virginia Gibbons, Esq., ASGAG
James McCafferty, Esq.
John Ciko, Jr., Esq.
Dr. Dorothy Soule, SOS Environmental
Norman Wei, Star-Kist Foods, Inc.
James Cox, VCS Samoa Packing

James

31002 PDL

CONCURRENCES

SYMBOL	W-7-1	E-4	ORC	W-7-1				
SURNAME	Gibbons	pyoung	B. Kings	Shadimoto				
DATE	7/8/90	3/8/90	3/8/90	3/8/90				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

215 Fremont Street

San Francisco, CA 94105

February 21, 1990

VIA FAX

Gordon P. Stirling
General Manager
VCS Samoa Packing Company
P.O. Box 957
Pago Pago, American Samoa 96799

Maurice W. Callaghan
President and General Manager
Star-Kist, Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Disposal of Fish Processing Wastes
at the Ocean Disposal Site Off
American Samoa

Gentlemen:

As you are aware, on February 6, 1990, EPA Region 9 published its tentative decision to issue special ocean dumping permits to your respective companies to dispose of fish processing wastes in the ocean off American Samoa. In both cases, EPA tentatively agreed to allow the transporting and dumping of the amount of wastes that your companies requested in the permit applications submitted to EPA in December 1988. In addition, your permit applications, and consequently, the Final Environmental Impact Statement, identified the MV MATAORA as the vessel that would be used for the proposed transporting and dumping. Consequently, that vessel, using a maximum pumping rate of 1,400 gallons/minute/10 knots, was used to calculate the appropriate size and location of the proposed ocean disposal site.

In early February, Samoa Packing approached Region 9 about increasing the amount of wastes permitted to be disposed of pursuant to its proposed special ocean dumping permit. We now understand that Samoa Packing wishes permit limits allowing daily disposal of 80,000 gallons with an ability to dispose of an additional 100,000 gallons in emergencies. The amount originally requested by Samoa Packing in its permit application was 56,900, which is the amount that EPA tentatively agreed by its publication of the proposed permit. Based on a telephone conversation with Norman Wei, EPA understands that Star-Kist Samoa needs to dump 100,000 gallons of high strength wastes on a daily basis, and that an additional 100,000 gallons would be needed to cover emergency situations.

As you know, the Agency planned to accommodate the ocean disposal of high strength wastes to facilitate compliance with the National Pollutant Discharge Elimination System Permits issued by EPA. However, it now appears that in seeking the designation of the ocean disposal site, the canneries did not fully consider their disposal needs. Specifically, Samoa Packing failed to revise its application to increase the maximum allowed dumping capacity at any time prior to EPA's issuance of the tentative permit and both canneries failed to address the issue of the additional barging capacity that would be necessary in order to barge the contemplated volume of wastes once high strength waste barging commenced. It is our understanding that the existing vessel can carry 24,000 gallons per trip and can make two to three trips to the dump site per day depending upon conditions. Thus, the Agency must now ascertain whether the fundamental basis for designating the ocean disposal site remains valid, and whether the proposed changes to the average quantities to be disposed of on a daily basis produce significant new information or objections from the public.

Consequently, we will require additional information before a final permit decision can be made. At a minimum, both canneries will need to submit documentation (e.g., computer modeling results) to Region 9 that demonstrates that the proposed new disposal scenario will comply with the Limiting Permissible Concentration (LPC) of the waste after four hours of mixing (see 40 C.F.R. §§227.27 through 227.29). Disposal of the fish processing wastes must meet the LPC for the waste at the dumpsite boundary after the initial mixing period. Waste plume models should be designed to consider the following variables: maximum daily volumes to be disposed under both ordinary and emergency situations, vessel capacity, size (beam and length) and pumping flow. If more than one vessel is to be used to dump the wastes, the cumulative impact of the timing of the dumps must be considered as well. These models should be compared to a model of the baseline conditions that are currently proposed to be allowed: 24,000 gallons dumped from MV MATAORA twice each day at the rate of 1,400 gallons/minute/10 knots.

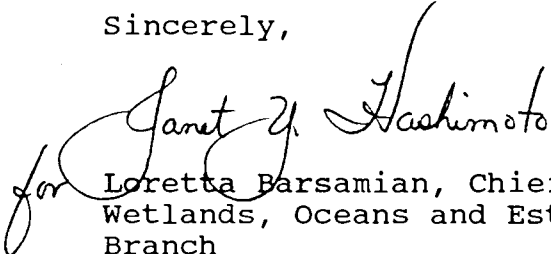
We strongly suggest that both Star-Kist Samoa and Samoa Packing submit, as part of their official comments on the proposed special ocean dumping permits, information and documentation that will enable us to give full consideration to the revised disposal scenarios. The assumptions and the conclusions to be drawn from the modeling results should be confirmed in writing by the modeling consultant, Dr. Dorothy Soule or her colleagues. Because of the potential impact of the various

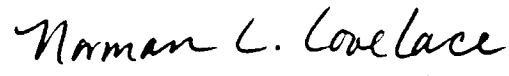
scenarios on the canneries' ability to barge, we suggest that this information be provided as quickly as possible, but no later than the close of the public comment period.

We also would like to point out that changing your ocean disposal operations may affect the fundamental assumptions used to designate the ocean disposal site. If these fundamental assumptions change, re-evaluation of the site may be necessary. Given the final rule for site designation published at 55 Fed. Reg. 3948 (Feb. 6, 1990), any proposed changes to the disposal operations must comply with the LPC at the boundary of the designated site. Working within the limitations of the designated site would help to avoid the continued accrual of violations of the effluent limitations contained in the canneries' NPDES permits by facilitating compliance through the diversion of high strength waste streams out of the inner harbor.

If there are any questions regarding the proposed ocean dumping permit, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 769-1728.

Sincerely,


for Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries
Branch

 by
Norman L. Lovelace, Chief
Office of Pacific Island and P.Y.
Native American Programs

cc: Thomas P. Redick, Esq.
James McCafferty, Esq.
John Ciko, Jr., Esq.
Dyke Coleman, Chairman, ASEQC
Pati Faiai, Director, ASEPA
Virginia Gibbons, Esq., ASGAG
Norman Wei, Star-Kist
James Cox, Samoa Packing
Dr. Dorothy Soule, SOS Environmental

United States
Environmental Protection
Agency

Regional Administrator
215 Fremont Street
San Francisco, CA 94105

Region 9
American Samoa
Hawaii, Nevada
Pacific Islands



Environmental News

*For Celler
(10-7-1)*

FOR IMMEDIATE RELEASE:

Contact: Lois Grunwald, U.S. EPA
(415) 744-1171

EPA SEEKS PUBLIC COMMENT ON WASTE DISPOSAL SITE OFF SAMOA

(San Francisco) -- The U.S. Environmental Protection Agency (EPA) today is seeking public comments on two draft permits which would allow Star-Kist Samoa Inc. and VCS Samoa Packing Co. to dispose of fish processing wastes from their canneries into the Pacific Ocean off American Samoa.

According to the permits, about 860,000 gallons of fish waste would be discharged each month from a disposal vessel. The disposal site will be located about five and one-half miles offshore. The federal Marine Protection, Research and Sanctuaries Act authorizes EPA to issue the ocean disposal permits.

Comments on the draft permits or requests for a public hearing must be sent in writing to the following address no later than March 3, 1990.:

Ocean Dumping Coordinator
Oceans and Estuaries Section (W-7-1)
U.S. Environmental Protection Agency
215 Fremont St.
San Francisco, CA 94105

The public notice, draft permits, final rule and administrative records are available for public review at the U.S. EPA; 211 Main St., San Francisco, Calif., upon special request by calling (415) 744-2180. They can also be reviewed at:

Pacific Islands Contact Office
300 Ala Moana Blvd.
Room 1302
Honolulu, HI
(808) 541-2710

American Samoa Environmental
Protection Agency
Office of the Governor
Pago, Pago, American Samoa
(684) 633-2682

.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

MEMORANDUM

SUBJECT: Notice of Complete Applications and Tentative Decision to Issue Special Ocean Dumping Permits (OD 90-01 and OD 90-02) to Star-Kist Samoa and Samoa Packing Company, and Final Rule for Site Designation

FROM: Janet Hashimoto, Chief *J Hashimoto*
Oceans and Estuaries Section (W-7-1)

TO: Darrell Brown, Chief
Marine Permits and Monitoring Branch (WH-556F)
Office of Marine and Estuarine Protection

Region 9 has determined that Star-Kist Samoa and Samoa Packing have submitted complete applications for ocean dumping permits to dispose of fish processing wastes off American Samoa. We have prepared two draft special permits (OD 90-01 and OD 90-02) under section 102 of the Marine Protection, Research and Sanctuaries Act. These permits authorize both companies to dispose of fish processing wastes from their canneries into the Pacific Ocean off American Samoa.

Region 9 has also prepared a Final Rule for designation of a permanent ocean disposal site for fish processing wastes off American Samoa. We do not anticipate major objections to the permits or the final site designation. We will keep you informed of our progress on the permits and the rulemaking process.

Information gathered during the term of these special permits and previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02 will be used to determine whether dumping of fish waste complies with EPA's Ocean Dumping Regulations at 40 CFR 220 and 228. The permittees will be required to conduct an EPA Region 9-approved site monitoring program during the term of the special permits, which includes laboratory and field analyses.

Region 9 has developed the attached documents to support the tentative determination to issue a special permit:

1. The public notice for the Region's action,
2. A fact sheet that describes the rationale behind the Region's decision,
3. The draft special permits which include permitting terms and conditions, and
4. The Final Rule to designate the site that will be published in the Federal Register.

If you have comments on the proposed special permits or the final rule, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 769-1728 within 30 days of the publication date.

Attachments

cc: Janice Rollwagen, EPA Region 2 (with attachments)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

25 JAN 1990

RE: Notice of Complete Applications and Tentative Decision to Issue Special Ocean Dumping Permits (OD 90-01 and OD 90-02) to Star-Kist Samoa and Samoa Packing Company, and Final Rule for Site Designation

Dear Interested Party:

The U.S. Environmental Protection Agency (EPA), Region 9, has determined that applications for ocean dumping permits from Star-Kist Foods and Van Camp Seafoods are complete. We have prepared draft special permits (OD 90-01 and OD 90-02) under section 102 of the Marine Protection, Research and Sanctuaries Act for Star-Kist Samoa and Samoa Packing Company, subsidiaries of the applicants. These special permits authorize disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. EPA Region 9 has also prepared a Final Rule for designation of a permanent site for disposal of fish processing wastes off American Samoa.

Information gathered during the term of these special permits and previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02 will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If, at any time, EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 and 228, we will reconsider use of the designated site.

Star-Kist Samoa and Samoa Packing Company, as the permittees, will be required to conduct the EPA Region 9-approved site monitoring program contained in the special permits. Please note the requirements for reporting of field and laboratory analyses, analytical detection limits and dump site monitoring procedures.

EPA Region 9 has developed the following documents to support the tentative determination for these special permits:

1. The public notice for EPA's action,
2. A fact sheet that describes the rationale behind EPA's decision,
3. The draft special permits which includes permitting terms and conditions, and

4. The Final Rule to designate the site that will be published in the Federal Register.

If you have comments on the proposed special permits or the final rule, please submit your concerns in writing within 30 days of the publication date to the EPA address above, Attn: Patrick Cotter, Regional Ocean Dumping Coordinator (W-7-1), or call him at (415) 744-1640.

Sincerely,

for Janet J. Hashimoto
Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

26 JAN 1990

Fred H. Avers
Chairman of the Board and Chief Executive Officer
Samoa Packing Company, Inc.
901 Chouteau Avenue
St. Louis, MO 63164

RE: Notice of Complete Application and Tentative Decision to
Issue a Special Ocean Dumping Permit (OD 90-02) to Star-Kist
Samoa, and Final Rule for Site Designation

Dear Mr. Avers:

The U.S. Environmental Protection Agency (EPA), Region 9, has determined that Van Camp Seafoods' application for an ocean dumping permit is complete. We have prepared a draft permit (OD 90-02) under section 102 of the Marine Protection, Research and Sanctuaries Act for Samoa Packing Company, Inc. This permit authorizes disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. We have also prepared a Final Rule for designation of a permanent site for disposal of fish processing wastes off American Samoa.

Information gathered during the term of this special permit and previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02 will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If, at any time, EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 and 228, we will reconsider use of the designated site.

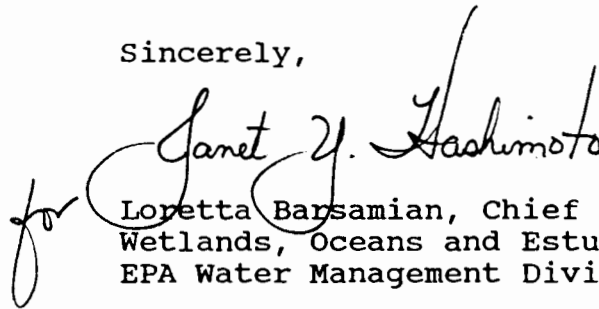
Samoa Packing Company, as the permittee, will be required to conduct the EPA Region 9-approved site monitoring program contained in the special permit. Please note the requirements for reporting of field and laboratory analyses, analytical detection limits and dump site monitoring procedures.

EPA Region 9 has developed the following documents to support the tentative determination for this special permit:

1. The public notice for EPA's action,
2. A fact sheet that describes the rationale behind EPA's decision,
3. The draft special permit which includes permitting terms and conditions, and
4. The Final Rule to designate the site that will be published in the Federal Register.

If you have comments on the proposed special permit or the final rule, please submit your concerns in writing within 30 days of the publication date to the EPA address above, Attn: Patrick Cotter, Regional Ocean Dumping Coordinator (W-7-1), or call him at (415) 744-1640.

Sincerely,


for Janet Y. Hashimoto

Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures

cc: Pati Faiai, American Samoa EPA
Gordon Stirling, Samoa Packing Company
Norman Wei, Star-Kist Foods
Albert Cropley, Star-Kist Samoa

26 JAN 1990

Fred H. Avers
Chairman of the Board and Chief Executive Officer
Samoa Packing Company, Inc.
901 Chouteau Avenue
St. Louis, MO 63164

RE: Notice of Complete Application and Tentative Decision to
Issue a Special Ocean Dumping Permit (OD 90-02) to Star-Kist
Samoa, and Final Rule for Site Designation

Dear Mr. Avers:

The U.S. Environmental Protection Agency (EPA), Region 9, has determined that Van Camp Seafoods' application for an ocean dumping permit is complete. We have prepared a draft permit (OD 90-02) under section 102 of the Marine Protection, Research and Sanctuaries Act for Samoa Packing Company, Inc. This permit authorizes disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. We have also prepared a Final Rule for designation of a permanent site for disposal of fish processing wastes off American Samoa.

Information gathered during the term of this special permit and previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02 will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If, at any time, EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 and 228, we will reconsider use of the designated site.

Samoa Packing Company, as the permittee, will be required to conduct the EPA Region 9-approved site monitoring program contained in the special permit. Please note the requirements for reporting of field and laboratory analyses, analytical detection limits and dump site monitoring procedures.

SYMBOL	W-7-1	E-4	W-7-1	W-7		
SURNAME	Letter	figuring	hashimoto	for Barsamian		
DATE	12/24/89	12/21/89	1/10/90	1/12/90		
U.S. EPA CONCURRENCES					OFFICIAL FILE COPY	

EPA Region 9 has developed the following documents to support the tentative determination for this special permit:

1. The public notice for EPA's action,
2. A fact sheet that describes the rationale behind EPA's decision,
3. The draft special permit which includes permitting terms and conditions, and
4. The Final Rule to designate the site that will be published in the Federal Register.

If you have comments on the proposed special permit or the final rule, please submit your concerns in writing within 30 days of the publication date to the EPA address above, Attn: Patrick Cotter, Regional Ocean Dumping Coordinator (W-7-1), or call him at (415) 744-1640.

Sincerely,

Loretta Barsamian, Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures

cc: Pati Faiai, American Samoa EPA
Gordon Stirling, Samoa Packing Company
Norman Wei, Star-Kist Foods
Albert Cropley, Star-Kist Samoa



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

24 JAN 1990

Editor
American Samoa News
P.O. Box 909
Pago Pago, American Samoa 96799

RE: Printing of the Public Notice for Two Ocean Dumping Permits

Dear Sir:

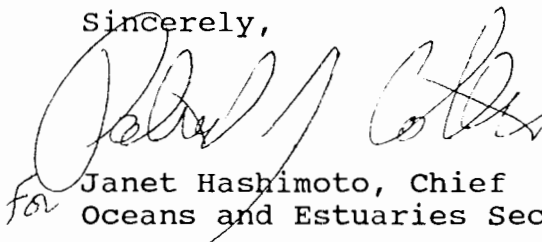
Enclosed is a copy of a public notice for issuance of two Special Ocean Dumping Permits, OD 90-01 for Star-Kist Samoa and OD 90-02 for Samoa Packing Company, by the U.S. Environmental Protection, Region 9.

Please schedule the enclosed public notice to appear in the Classified Advertisement, Legal Notice section, of your newspaper on 02 FEB 1990 for one time only.

The procedure for the request of payment is outlined in the attached advertising order form. Upon issuance of the public notice in your newspaper, please provide our office with two affidavits or proofs of publication. The two affidavits and a copy of the advertising order should be sent to the letterhead address, attention: Financial Management Office, P-4.

If you have any questions or problems with billing in this matter please call Patrick Cotter at (415) 744-1640.

Sincerely,


for Janet Hashimoto, Chief
Oceans and Estuaries Section

Enclosure

ADVERTISING ORDER

ORDER NUMBER AR0005

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE
U.S. EPA, REGION IX, SAN FRANCISCO, CA

DATE
10/17/89

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

AMERICAN SAMOA NEWS, P.O. BOX #909, PAGO PAGO, AMERICAN SAMOA 96799

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE FOR AS-90-01 & AS-90-02

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

DATE(S) ADVERTISEMENT APPEARED

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.
ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

IF YOU HAVE ANY QUESTIONS CALL SHELLEY CLARKE AT (415) 974-8301

COPY FOR ADVERTISEMENT

SEE ATTACHED.

Accounting Data

CC10-14	DCN CC15-20	ORDER NO. CC21-30	ACCT. NO. CC31-40	OC	ESTIMATED COST	FC
0501	AR0005	0000AR0005	0AFE09L00	02540	\$500.00	N

AUTHORITY TO ADVERTISE

NUMBER
EPA Order 1210.5a

DATE
December 13, 1973

SIGNATURE OF AUTHORIZING OFFICIAL

INSTRUMENT OF ASSIGNMENT

NUMBER
N/A

DATE
N/A

TITLE
Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC.
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-6576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 3:00 p.m., November 15, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to
U.S. Environmental Protection Agency

Financial Management Office (P-4)
215 Fremont Street, San Francisco, CA 94105
IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

NOTICE OF APPLICATION AND PROPOSED ACTION
by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
REGION IX
215 FREMONT STREET
SAN FRANCISCO, CALIFORNIA 94105
(415) 744-1640

Applications for Permits to Transport
and Dump Materials into Ocean Waters

Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to section 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. 1401 et seq.) and 40 C.F.R. section 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 FR 2462 et seq., January 11, 1977), notice is hereby given of receipt by this office of complete applications for permits to transport and dump materials into ocean waters from:

Star-Kist Foods, Inc.	and	Van Camp Seafood Company, Inc.
180 East Ocean Boulevard		901 Chouteau Avenue
Long Beach, CA 90802		St. Louis, MO 63164

on behalf of their respective subsidiary companies

Star-Kist Samoa, Inc.	and	Samoa Packing Company, Inc.
P.O. Box 368		P.O. Box 957
Pago Pago, AS 96799		Pago Pago, AS 96799

TENTATIVE DETERMINATION

EPA has made the tentative determination to issue a special ocean dumping permit to each applicant, Star-Kist Samoa and Samoa Packing Company, for a three year period. The Agency has determined that these permits are required for ocean disposal of fish cannery wastes produced at the American Samoa canneries.

The proposed ocean dumping during the term of the special permits is expected to meet the criteria and have minimal adverse impact on human health and/or the environment. EPA has evaluated data in ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01, OD 88-02 and other relevant information. We have determined that the Agency's ocean dumping criteria (40 C.F.R. Parts 227 and 228) will be met at the 1,500 fathom (9,000 feet) site proposed for designation.

Efforts to formally designate an ocean disposal site, according to EPA's environmental impact statement policy for ocean disposal sites (39 Fed. Reg. 16186, May 7, 1974; as amended 39 Fed. Reg. 37419, October 24, 1974), began with the publication of a Draft Environmental Impact Statement (DEIS) for site

designation on September 16, 1988. After comments were received on the DEIS, EPA selected a proposed disposal site. The site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. A Proposed Rule and a Final Environmental Impact Statement were issued in February and March of 1989, respectively. A Final Rule for site designation will be published in the Federal Register before the special permits become effective. These documents are available for review at the offices listed below.

The primary environmental impacts of the proposed discharges are short-term increases in turbidity, inorganic nutrients, biological oxygen demand and ammonia during the dumping event. Scientific studies on ocean disposal of dissolved air flotation (DAF) sludge in American Samoa indicate that water quality parameters return to ambient conditions at the boundary of the disposal site following the period of initial mixing. The 1,500 fathom site has been selected to ensure that American Samoa Water Quality Standards are not affected by dumping. Since the center of the site is located approximately 5.45 nautical miles from shore, impacts to sensitive marine resources and human health are not expected.

During the term of the permits, the permittees will be required to conduct the EPA Region 9-approved site monitoring program, including laboratory analyses of waste stream samples, daily monitoring of each dump and monthly monitoring of the disposal site. Information gathered during the term of the special permits plus other relevant data will be used by EPA to determine continued compliance with the ocean dumping criteria.

SUMMARY OF APPLICATION INFORMATION

Star-Kist Samoa and Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, including DAF sludge, precooker water, and presswater. DAF sludge is the material that remains after treatment of fish processing waste to remove grease and suspended particulate matter. The sludge also contains coagulants and odor reducing chemicals that are added during the waste treatment process. Precooker water is a combination of stick water and other process waste water that collects under the steam precoolers. Press water is waste water produced at the fish meal plants when fish scrap is cooked and pressed before being dried to produce a livestock food meal. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

There are no significant changes in the amount of wastes proposed for disposal compared to research permit OD 88-02. During the term of these special permits, and in accordance with all other terms and conditions of the permit, the permittees are

authorized to transport for disposal into ocean waters quantities of waste material that shall not exceed the following amounts:

Waste Material	Star-Kist Samoa (gallons/day)	Samoa Packing Co. (gallons/day)	Total Permitted Discharge (gallons/day)
DAF Sludge	60,000	31,400	91,400
Precooker Water	100,000	13,300	113,300
Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within 30 days of the date of this notice, any person may request a public hearing to consider the issuance or denial of, or the conditions to be imposed upon this permit. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; and 3) state any objections to the issuance or denial of, or to the conditions to be imposed upon this permit, and the issues which are proposed to be considered at the hearing. In accordance with 40 C.F.R section 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

The Administrative Record, which includes the application, the draft permit and other relevant documents, is available for public review Monday through Friday from 9:00 am to 4:00 p.m. at the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii (808) 541-2710; or at the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, (684) 633-2304; or call (415) 744-2180 to make special arrangements. Persons wishing to comment on the tentative determination may do so by submitting such written comments within 30 days of the date of this notice to:

Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
215 Fremont Street
San Francisco, California 94105
Telephone (415) 744-2180

All comments or objections received within 30 days of the date of this notice will be considered in the formulation of final determinations regarding the application. Further information may be obtained by writing or calling the U.S. EPA or the American Samoa Environmental Protection Agency.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

26 JAN 1996

Editor
San Francisco Chronicle
950 Mission St.
San Francisco, CA 94103
Attn: Legal Advertisement

RE: Printing of the Public Notice for an Ocean Dumping Permit

Dear Sir:

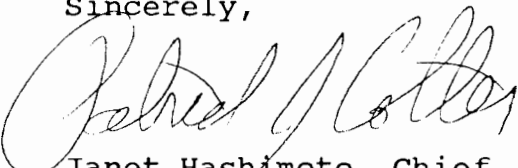
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Please schedule the enclosed public notice to appear in the Classified Advertisement, Legal Notice section, of your newspaper on 02 FEB 1996 for one time only.

The procedure for the request of payment is outlined in the attached advertising order form. Upon issuance of the public notice in your newspaper, please provide our office with two affidavits or proofs of publication. The two affidavits and a copy of the advertising order should be sent to the letterhead address, attention: Financial Management Office, P-4.

If you have any questions in this matter please call Patrick Cotter at (415) 744-1640.

Sincerely,


for Janet Hashimoto, Chief
Oceans and Estuaries Section

Enclosure

ADVERTISING ORDER

ORDER NUMBER AR0004

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE
U.S. EPA, REGION IX, SAN FRANCISCO, CA

DATE
10/17/89

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

SAN FRANCISCO CHRONICLE, 814 MISSION STREET, 5TH FLOOR. SAN FRANCISCO, CA 94103

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE FOR AS-90-01 & AS-90-02

EDITION OF PAPER ON WHICH ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

DATE(S) ADVERTISEMENT APPEARED

SPECIFICATIONS FOR ADVERTISEMENT

PLEASE NOTE: PAYMENT CANNOT BE MADE UNTIL THE BACK OF THIS FORM IS COMPLETED.

ALSO SUBMIT TWO (2) COPIES OF AFFIDAVIT OF PUBLICATION.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT SHELLEY CLARKE AT (415) 974-8301

COPY FOR ADVERTISEMENT

SEE ATTACHED.

Accounting Data

CC10-14	DCN CC15-20	ORDER NO. CC21-30	ACCT. NO. CC31-40	OC	ESTIMATED COST	FC
0501	AR0004	0000 AR0004	0AFE09L000	2540	\$3,500.00	N

AUTHORITY TO ADVERTISE

NUMBER

EPA Order 1210.5a

DATE

December 13, 1973

SIGNATURE OF AUTHORIZING OFFICIAL

[Signature]

INSTRUMENT OF ASSIGNMENT

NUMBER

N/A

DATE

N/A

TITLE

Chief, Support Service Branch

INSTRUCTIONS TO PUBLISHERS

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Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to
U.S. Environmental Protection Agency

Financial Management Office (P-4)
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NOTICE OF APPLICATION AND PROPOSED ACTION
by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
REGION IX
215 FREMONT STREET
SAN FRANCISCO, CALIFORNIA 94105
(415) 744-1640

Applications for Permits to Transport
and Dump Materials into Ocean Waters

Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to section 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. 1401 et seq.) and 40 C.F.R. section 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 FR 2462 et seq., January 11, 1977), notice is hereby given of receipt by this office of complete applications for permits to transport and dump materials into ocean waters from:

Star-Kist Foods, Inc.	and	Van Camp Seafood Company, Inc.
180 East Ocean Boulevard		901 Chouteau Avenue
Long Beach, CA 90802		St. Louis, MO 63164

on behalf of their respective subsidiary companies

Star-Kist Samoa, Inc.	and	Samoa Packing Company, Inc.
P.O. Box 368		P.O. Box 957
Pago Pago, AS 96799		Pago Pago, AS 96799

TENTATIVE DETERMINATION

EPA has made the tentative determination to issue a special ocean dumping permit to each applicant, Star-Kist Samoa and Samoa Packing Company, for a three year period. The Agency has determined that these permits are required for ocean disposal of fish cannery wastes produced at the American Samoa canneries.

The proposed ocean dumping during the term of the special permits is expected to meet the criteria and have minimal adverse impact on human health and/or the environment. EPA has evaluated data in ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01, OD 88-02 and other relevant information. We have determined that the Agency's ocean dumping criteria (40 C.F.R. Parts 227 and 228) will be met at the 1,500 fathom (9,000 feet) site proposed for designation.

Efforts to formally designate an ocean disposal site, according to EPA's environmental impact statement policy for ocean disposal sites (39 Fed. Reg. 16186, May 7, 1974; as amended 39 Fed. Reg. 37419, October 24, 1974), began with the publication of a Draft Environmental Impact Statement (DEIS) for site

designation on September 16, 1988. After comments were received on the DEIS, EPA selected a proposed disposal site. The site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.20' West longitude with a radius of 1.5 nautical miles. A Proposed Rule and a Final Environmental Impact Statement were issued in February and March of 1989, respectively. A Final Rule for site designation will be published in the Federal Register before the special permits become effective. These documents are available for review at the offices listed below.

The primary environmental impacts of the proposed discharges are short-term increases in turbidity, inorganic nutrients, biological oxygen demand and ammonia during the dumping event. Scientific studies on ocean disposal of dissolved air flotation (DAF) sludge in American Samoa indicate that water quality parameters return to ambient conditions at the boundary of the disposal site following the period of initial mixing. The 1,500 fathom site has been selected to ensure that American Samoa Water Quality Standards are not affected by dumping. Since the center of the site is located approximately 5.45 nautical miles from shore, impacts to sensitive marine resources and human health are not expected.

During the term of the permits, the permittees will be required to conduct the EPA Region 9-approved site monitoring program, including laboratory analyses of waste stream samples, daily monitoring of each dump and monthly monitoring of the disposal site. Information gathered during the term of the special permits plus other relevant data will be used by EPA to determine continued compliance with the ocean dumping criteria.

SUMMARY OF APPLICATION INFORMATION

Star-Kist Samoa and Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, including DAF sludge, precooker water, and presswater. DAF sludge is the material that remains after treatment of fish processing waste to remove grease and suspended particulate matter. The sludge also contains coagulants and odor reducing chemicals that are added during the waste treatment process. Precooker water is a combination of stick water and other process waste water that collects under the steam precoolers. Press water is waste water produced at the fish meal plants when fish scrap is cooked and pressed before being dried to produce a livestock food meal. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

There are no significant changes in the amount of wastes proposed for disposal compared to research permit OD 88-02. During the term of these special permits, and in accordance with all other terms and conditions of the permit, the permittees are

authorized to transport for disposal into ocean waters quantities of waste material that shall not exceed the following amounts:

Waste Material	Star-Kist Samoa (gallons/day)	Samoa Packing Co. (gallons/day)	Total Permitted Discharge (gallons/day)
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Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within 30 days of the date of this notice, any person may request a public hearing to consider the issuance or denial of, or the conditions to be imposed upon this permit. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; and 3) state any objections to the issuance or denial of, or to the conditions to be imposed upon this permit, and the issues which are proposed to be considered at the hearing. In accordance with 40 C.F.R section 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

The Administrative Record, which includes the application, the draft permit and other relevant documents, is available for public review Monday through Friday from 9:00 am to 4:00 p.m. at the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii (808) 541-2710; or at the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, (684) 633-2304; or call (415) 744-2180 to make special arrangements. Persons wishing to comment on the tentative determination may do so by submitting such written comments within 30 days of the date of this notice to:

Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
215 Fremont Street
San Francisco, California 94105
Telephone (415) 744-2180

All comments or objections received within 30 days of the date of this notice will be considered in the formulation of final determinations regarding the application. Further information may be obtained by writing or calling the U.S. EPA or the American Samoa Environmental Protection Agency.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

JAN 19 1990

MEMORANDUM

SUBJECT: Communication Strategy Announcing Two Ocean Dumping Special Permits and the Publication of a Final Rule for the Designation of an Ocean Disposal Site for Fish Processing Wastes off American Samoa

FROM: *fu* Harry Seraydarian, Director *Hein Eka*
Water Management Division (W-1)

TO: Deanna M. Wieman, Director
Office of External Affairs (E-1)

Attached please find the communication strategy for two special ocean dumping permits and the final rule (FR) to designate an ocean disposal site for fish processing wastes off Tutuila Island, American Samoa. After the special permits are approved by the Region and the FR is signed, a copy will be mailed to the enclosed mailing list and a press statement will be released on the day of FR publication.

The proposed special permits will be published in the San Francisco Chronicle and the Samoa News, and the FR will be published in the Federal Register by the end of January 1990. A 30-day comment period follows both notices. We do not anticipate any objections to the special permits or the FR.

The permittees in American Samoa, Star-Kist Samoa and Samoa Packing, have been dumping fish processing wastes in the ocean since 1980. They have a research ocean dumping permit that was administratively extended on March 3, 1989 because the Ocean Dumping Ban Act of 1988 discontinued the research permit program for ocean dumping. The proposed special permits will be issued to the canneries for three years along with the final designation of the ocean disposal site for continued use.

If your staff has any questions on the communication strategy, please have them contact Patrick Cotter at 744-2180.

Attachments

BRIEFING DOCUMENT

PUBLICATION OF TWO SPECIAL OCEAN DUMPING PERMITS AND A FINAL RULE TO DESIGNATE AN OCEAN DISPOSAL SITE FOR FISH PROCESSING WASTES OFF TUTUILA ISLAND, AMERICAN SAMOA

EXPECTED DATES OF ACTIONS: End of January 1990 for publication of the Final Rule and the draft special permits.

ACTION: A Final Rule (FR) has been prepared to designate an ocean disposal site for fish processing wastes off Tutuila Island, American Samoa. In addition, two special ocean dumping permits have been drafted for the canneries in American Samoa. These documents are required by EPA's Ocean Dumping Regulations and EPA's policy to prepare EISS for all ocean disposal site designations. The site is being designated to provide two tuna canneries operating in American Samoa with the best environmental solution for disposal of wastes generated at their plants.

BRIEF BACKGROUND: The center of the designated site is 5.45 nautical miles south of Pago Pago Harbor in 1,500 fathoms (9,000 feet) of water. Disposal of fish processing wastes includes dissolved air flotation (DAF) sludge, press water, and precooker water, from Star-Kist Samoa and Samoa Packing Company canneries. These two canneries have dumped an average of approximately 860,000 gallons per month from 1987 to the present under four ocean dumping research permits.

As a result of minimal comments received on the Final EIS and the Proposed Rule, Region 9 has decided to designate the 1,500 fathom site as the ocean disposal area and issue two special permits for dumping. Consensus of those who commented on the EIS and the Proposed Rule indicated that they would accept designation of this site. The American Samoa Economic Development Planning Office certified that the site complied with the coastal zone management program for the island (section 307(c) of the Coastal Zone Management Act).

Fish processing began in American Samoa in 1954 with the opening of the Van Camp Seafood Company (later changed to Samoa Packing). Star-Kist Samoa opened in 1963. All of the wastes from the two plants were discharged into Pago Pago Harbor under NPDES permits.

In an effort to clean up the harbor, the canneries began to dispose of the DAF sludge at a land disposal site. Due to health reasons, the American Samoa Government prohibited land disposal in September 1980. As a result of the ban on land disposal, EPA issued a special ocean dumping permit to the canneries on September 3, 1980 and designated a disposal site for three years. The permit and the site expired in 1983; however, EPA authorized the canneries to continue to dispose of the wastes at the ocean site while an EIS was being prepared to designate the site for continued use.

NPDES permits issued to the canneries in February 1987 contain interim effluent limits which cannot be met by continued discharge of all current wastes streams to Pago Pago Harbor. When the NPDES permits are fully in effect, ocean dumping high strength wastes (including DAF sludge, precooker water and press water) is anticipated, because no other viable disposal alternatives are available at this time.

EPA issued six-month research disposal permits in February 1987, September 1987, March 1988 and September 1988 to obtain information on the disposal operation. The data obtained during these research permits allowed EPA to evaluate the composition of the DAF sludge over time and the movement of the disposal plume at the disposal site.

The Ocean Dumping Ban Act of 1988 provided an exclusion for the tuna canneries operating in American Samoa from the general ban on ocean disposal of industrial wastes. The Act also discontinued the research permit program for ocean dumping. The Region administratively extended the last research permit until a three year special permit could be developed for each cannery. We are now prepared to issue the special permits and designate the permanent site.

Past monitoring studies on the disposal of dissolved air flotation (DAF) sludge off American Samoa show that water quality parameters return to ambient conditions at the boundary of the site following the four hour period of initial mixing (40 C.F.R. section 227.29). To be certain that American Samoa Water Quality Standards would not be affected by the disposal of fish processing wastes, the center of the disposal site used during the research permits was moved to a point 5.45 nautical miles offshore, and restrictive disposal rates and limitations on the waste material constituents are included in the permit.

During the course of public comment periods for the research permits, the DEIS, the Proposed Rule and the Final EIS, we have not had any significant negative responses to the proposed dumping program at the 1,500 fathom site. Agencies such as the U.S. Fish and Wildlife Service and the National Marine Fisheries Service have provided support for the program. The American Samoa Government supports the program because ocean disposal of fish processing wastes will help to clean up Pago Pago Harbor.

PROJECT CONTACT: Patrick Cotter, 744-2180

SECTION CHIEF: Janet Hashimoto, 744-2180

REGION 9 COMMUNICATION STRATEGY

DESIGNATION OF AN OCEAN DISPOSAL SITE FOR FISH PROCESSING WASTES
OFF PAGO PAGO HARBOR, AMERICAN SAMOA AND ISSUANCE OF TWO SPECIAL OCEAN DUMPING PERMITS

AUDIENCE	HOW NOTIFIED	TIME FRAME	RESPONSIBLE STAFF	MATERIALS NEEDED	NOTES
H. Seraydarian D. Wieman,	Memo	01/12	P. Cotter P. Young	Fact Sheet (A), Permits (B), Public Notice (C), Final Rule (D), Comm. Strategy (E), Press Release (F)	WMD informs OEA of comm. strategy.
D. McGovern	Briefing	01/12	N. Lovelace	A, B, C, D	WMD requests RA signature on D. If necessary, brief on proposed action. Discuss preparation for RA signing D
Samoa News, SF Chronicle	Letter	01/17	P. Cotter	C	C sent to newspapers for publication on 01/26/90.
EPA Office of Federal Reg.	Pouch	01/17	P. Cotter	D	1 original & 3 copies of D to EPA OFA, print on 01/26
Public	Mail	01/17	P. Cotter	A, B, C, D	Copies sent to mailing list
Press	Press Release	01/26	L. Grunwald	E	Press release sent to news services CA, HI, AS on mailing list

MAILING LIST FOR THE AMERICAN SAMOA
MPRSA FISH WASTE PERMIT AND SITE DESIGNATION

LATEST REVISION - December 17, 1989

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FACT SHEET
SPECIAL OCEAN DUMPING PERMITS
FOR STAR-KIST SAMOA, INC. (OD 90-01) AND SAMOA PACKING COMPANY,
INC. (OD 90-02) LOCATED IN PAGO PAGO, AMERICAN SAMOA

I. Summary

The U.S. Environmental Protection Agency (EPA) Region 9 has received complete applications from Star-Kist Foods, Incorporated and Van Camp Seafood Company, Incorporated for ocean disposal of fish processing wastes off Pago Pago, American Samoa. The site selected for designation is located 5.45 nautical miles from land (14° 24.00' South latitude by 170° 38.20' West longitude) with a radius of 1.5 nautical miles in 1,502 fathoms of water.

The applications were made on behalf of subsidiary companies, Star-Kist Samoa, Incorporated and Samoa Packing Company, Incorporated, respectively. The Regional Administrator has tentatively decided to issue special ocean dumping permits (OD 90-01 and OD 90-02) to the subsidiary companies for ocean disposal of fish processing wastes over a three year period. This decision has been made in accordance with EPA's authority established in Title I of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA) (33 U.S.C. section 1401 et seq.)

The Ocean Dumping Ban Act of 1988 (PL 100-688) contains an exclusion from the ban on disposal of industrial waste for tuna canneries in American Samoa as an amendment to MPRSA section 104b(k)(3)(B). This final designation of an ocean disposal site corresponds with the intent of Congress to provide an acceptable means of disposing of fish processing wastes in the most environmentally sound manner.

The conditions and monitoring programs defined in OD 90-01 and OD 90-02 are similar to those in research ocean dumping permit OD 88-02. However, several significant changes have been made to: 1) permitted waste concentrations, 2) waste stream monitoring, 3) reporting requirements, 4) disposal vessel operations, and 5) disposal site monitoring. The new monitoring program is designed to verify that unacceptable environmental impacts are not occurring at the disposal site and that EPA's Ocean Dumping criteria are being met.

EPA Region 9 has tentatively decided to proceed with final approval of these special permits. Comments on this proposed action will be requested from the general public, the American Samoa Government, and other Federal agencies required under the Agency's Ocean Dumping Regulations at 40 C.F.R Parts 220 through 228. Draft special permits and supporting documents are available for public review at the U.S. EPA's Regional Office, Third Floor, 211 Main Street, San Francisco, California; the U.S. EPA's Pacific Island Contact Office, 300 Ala Moana Boulevard, Honolulu, Hawaii; and the American Samoa Environmental Protection

Agency, Office of the Governor, Pago Pago, American Samoa. These documents define the principal facts and significant legal, administrative and policy questions considered in the development of the special permits.

II. Tentative Decision

Samoa Packing Company (December 2, 1988) and Star-Kist Samoa (December 5, 1988) applied for ocean dumping permits to dispose of their fish cannery wastes at a site near Pago Pago, American Samoa. The site is located 5.45 nautical miles from land (14° 24.00' South latitude by 170° 38.20' West longitude) with a radius of 1.5 nautical miles in 1,502 fathoms of water. EPA Region 9 is planning to grant their applications by issuing a special ocean dumping permit to each cannery for three years.

Current information indicates that disposal of fish processing wastes at the new site will comply with the Ocean Dumping criteria. Information obtained during term of the special permits plus data from the previous research permits will be used to evaluate whether the disposal of fish processing wastes continues to comply with criteria defined in 40 C.F.R. Parts 227 and 228 of EPA Ocean Dumping Regulations. The permittees will be required to conduct an approved EPA Region 9 site monitoring program, including field and laboratory analyses. Results of the monitoring program will be used to document whether unacceptable environmental impacts are occurring in the ocean and whether the dumping continues to comply with EPA's ocean dumping criteria.

The proposed dumping during the term of the special permits is expected to have minimal impacts on human health and/or the environment, as demonstrated by the monitoring results of the previous research permits. The primary environmental impact of the proposed discharges would be short-term increases in turbidity, inorganic nutrients, oil and grease, biological oxygen demand and ammonia during the dumping events.

Past monitoring studies on the disposal of dissolved air flotation (DAF) sludge off American Samoa show that water quality parameters return to ambient conditions at the boundary of the site following the four hour period of initial mixing (40 C.F.R. section 227.29). To be certain that American Samoa Water Quality Standards would not be affected by the disposal of fish processing wastes, the center of the disposal site was moved to a point 5.45 nautical miles offshore, and restrictive disposal rates and limitations on the waste material constituents are included in the permit.

III. Terms of the Permit

Special permits OD 90-01 and OD 90-02 are similar to OD 88-02, except for those changes listed above. The permittees have been disposing of fish cannery wastes, monitoring the waste

streams and the disposal site according to the specifications of the past research permits.

A. Description of Waste Material

The permittees will be authorized to transport for disposal into ocean waters quantities of waste material that shall not exceed the following amounts:

Waste Material	Star-Kist Samoa (gallons/day)	Samoa Packing Co. (gallons/day)	Total (gallons/day)
DAF Sludge	60,000	31,400	91,400
Precooker Water	100,000	13,300	113,300
Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

B. Waste Material Limitations in the Proposed Permit

1. The following table contains the waste material limitations for the Star-Kist Samoa permit OD 90-01 (NOTE: limits for Total Solids will be calculated when enough data are available):

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent
DAF Sludge	60,000 gal/day	BOD ₅ 376,520 mg/L
		Total Phosphorus 3,110 mg/L
		Total Nitrogen 17,330 mg/L
		Oil and Grease 156,070 mg/L
		Tot. Vol. Solids 182,920 mg/L
		Density 0.92 to 1.07 g/ml
		Ammonia 7,470 mg/L
Precooker Water	100,000 gal/day	BOD ₅ 365,450 mg/L
		Total Phosphorus 1,190 mg/L
		Total Nitrogen 20,640 mg/L
		Oil and Grease 5,330 mg/L
		Tot. Vol. Solids 135,330 mg/L
		Density 0.96 to 1.05 g/ml
		Ammonia 11,630 mg/L
Press Water	40,000 gal/day	BOD ₅ 399,090 mg/L
		Total Phosphorus 1,960 mg/L
		Total Nitrogen 31,400 mg/L
		Oil and Grease 60,120 mg/L
		Tot. Vol. Solids 364,260 mg/L
		Density 0.96 to 1.06 g/ml
		Ammonia 17,830 mg/L

2. The following table contains the waste material limitations for the Samoa Packing Company permit OD 90-02 (NOTE: limits for Total Solids will be calculated when enough data become available):

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent	
DAF Sludge	31,400 gal/day	BOD ₅	429,470 mg/L
		Total Phosphorus	4,240 mg/L
		Total Nitrogen	14,530 mg/L
		Oil and Grease	280,970 mg/L
		Tot. Vol. Solids	313,060 mg/L
		Density	0.85 to 1.08 g/ml
		Ammonia	2,670 mg/L
Precooker Water	13,300 gal/day	BOD ₅	62,060 mg/L
		Total Phosphorus	2,260 mg/L
		Total Nitrogen	22,760 mg/L
		Oil and Grease	263,340 mg/L
		Tot. Vol. Solids	344,840 mg/L
		Density	0.96 to 1.04 g/ml
		Ammonia	3,120 mg/L
Press Water	12,200 gal/day	BOD ₅	500,580 mg/L
		Total Phosphorus	9,280 mg/L
		Total Nitrogen	32,900 mg/L
		Oil and Grease	381,760 mg/L
		Tot. Vol. Solids	374,350 mg/L
		Density	0.98 to 1.07 g/ml
		Ammonia	4,490 mg/L

3. Calculation of Permit Limits (see Appendix A for data)

a. Data from the four research permits issued to each cannery beginning in 1987 were used to calculate all permit limits. The data for each cannery was evaluated separately.

b. The following calculations were made for each set of data using the LOTUS-123 computer program: maximum (MAX) and minimum (MIN) levels; mean (MEAN), standard deviation (SD) and the number of data points (N); and mean plus or minus 2 standard deviations ($M + 2$ and $M - 2$).

c. Any data values greater than or less than the mean plus or minus 2 standard deviations, were considered to be outliers (OUTL) and removed from further calculations.

d. The adjusted data were transformed by taking the natural log $[\ln(x)]$ of each data point. This mathematical procedure is recommended in EPA's Guidance Document for Ocean Dumping Permit (January 30, 1988). All procedures for calculating

permit limits are discussed in Sections 3.1.1 and 3.1.2 (pages 3-1 to 3-9) of the Guidance Document.

- (1) The MEAN, SD and N were calculated for the adjusted, natural log data.

$$MEAN_x = \frac{\sum x_i}{N}$$

x_i = each value for the i th constituent
 N = the number of data points reported

$$SD_x = \sqrt{\frac{\sum \{x_i - MEAN_x\}^2}{N - 1}}$$

- (2) The permit limit (LIMIT) was determined by taking the adjusted data MEAN and adding the product of a constant multiplied by the SD of the adjusted data.

$$LIMIT_x = MEAN_x + (k \times SD_x)$$

k = a constant from Table 3-2 in EPA's Guidance Document.

- (3) The constant (k) is based on N and two variables probability (γ) and proportion (P) used to compute permit limits. In this case, all limits were calculated with $\gamma = 0.95$ and $P = 0.95$.

IV. Factors Considered in Reaching the Permit Decisions

A. Project Overview

The two fish canneries in American Samoa, Star-Kist Samoa and Samoa Packing Company, propose to dispose of fish processing wastes at an ocean dump site centered approximately 5.45 nautical miles south of Tutuila Island in 1,502 fathoms of water. The waste materials will be transported to the upcurrent quadrant of the site and discharged at a rate less than or equal to 1400 gallons per minute at a maximum speed of 10 knots within a 0.2 nautical mile radius circle.

On each trip, the master of the disposal vessel will document current direction at the center of the disposal site. He will then proceed to a point 1.2 nautical miles upcurrent of the prevailing surface current to discharge the waste. The fish processing wastes may be discharged only after this procedure has been conducted. This will ensure that the waste plume has an adequate area for mixing within the disposal site boundary.

Receiving waters at the disposal site are seaward of the State waters and are classified as oceanic water by the American Samoa Water Quality Standards. These waters are characterized by low values for turbidity, nitrogen, phosphorus and chlorophyll a; a high degree of light penetration; near saturation values for dissolved oxygen; and a wide range of pH values. Four hours after dumping has ceased, concentrations of the above parameters must reach ambient levels (40 C.F.R. section 227.29) at the disposal site boundary as compared to samples collected at an ocean reference site during site monitoring. Waste stream and disposal site monitoring requirements are contained in the special permit. EPA Region 9 will evaluate potential impacts to water quality based on these data.

B. Location of Disposal Site

The permits confine transportation for the purpose of ocean dumping to a circular area with a 1.5 nautical mile diameter centered at 14° 24.00' South latitude by 170° 38.20' West longitude.

V. EPA's Authority To Issue Ocean Dumping Permits

A. EPA's authority to issue special ocean dumping permits is defined under Title I of MPRSA and at 40 C.F.R. section 220.4. The authority to issue special permits was delegated to the Regional Administrator on January 11, 1977 (42 FR 2462).

B. Section 102 of MPRSA authorizes EPA to issue permits for ocean dumping. The Agency must determine that the proposed dumping will not unreasonably degrade or endanger human health, welfare, or amenities, or the marine environment, ecological systems, or economic potentialities. In addition to these requirements, EPA must evaluate each permit application to determine whether the dumping will comply with the criteria at 40 C.F.R. Part 227 and whether the designated site complies with the criteria at 40 C.F.R. Part 228.

C. Designation of an acceptable site for ocean disposal will be promulgated in 40 C.F.R. section 228.12(b). The designation process consists of publication of an environmental impact statement according to EPA policy, and rulemaking published in the Federal Register. The draft EIS for this project was published on September 16, 1988 (53 FR 38118) and a final EIS was published on March 3, 1989 (54 FR 9083). The proposed rule for designation of the site was published on February 17, 1989 (54 FR 7207). The final rule is scheduled for publication in the Federal Register before the special permits become effective.

D. EPA Region 9 will periodically evaluate compliance with the criteria based on review of data from previous dumping permits (including: OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02), results of monitoring contained in these proposed permits, and other data. If unacceptable impacts are detected at

the site (40 C.F.R. section 228.10), EPA will evaluate the use of the site (40 C.F.R. sections 228.10 and 228.11).

VI. Administrative Procedures and the Public Hearing Process

A. The processing of an ocean dumping permit consists of the following actions:

1. EPA receives a completed application (40 C.F.R. section 221).
2. EPA issues a tentative decision whether to grant or deny the special permit (40 C.F.R. section 222.2). A draft permit is the means by which EPA documents the intent to grant an ocean dumping permit.
3. A public notice is issued to announce EPA's intent to issue the permit (40 C.F.R. section 222.3). The notice contains the following elements: summary, tentative determination, factors considered in reaching the tentative determination, hearing process, and the location of all information on the draft permit. Public notices describing EPA's intent to issue a permit are published in a daily newspaper in closest proximity to the proposed dump site and in a daily newspaper in the city in which EPA's Regional Office is located.
4. Before a final decision can be made on the special permit, formal consultation must be documented with the following agencies: American Samoa Government, U.S. Army Corps of Engineers, U.S. Coast Guard, National Marine Fisheries Service, U.S. Fish and Wildlife Service and the Shellfish Sanitation Branch of the Food and Drug Administration.

B. Initiation of a Public Hearing

1. Within 30 days of the date of the public notice, any person may request a public hearing to consider issuance or denial of the special permit or conditions to be imposed upon this permit. Any request for a hearing must be made in writing; must identify the person requesting the hearing; and must clearly state any objections to issuance or denial of the permit or to the conditions to be imposed upon the permit, and the issues to be considered at the hearing. In accordance with 40 C.F.R. section 222.4, the Regional Administrator may schedule a hearing, at his discretion, based on genuine issues presented in the written request.
2. Upon receipt of a written request presenting genuine issues amenable to resolution by a public hearing, the Regional Administrator may determine a time and place for the hearing and publish a notice of the hearing. All interested parties will be invited to express their views on

the proposed issuance or denial of the permit at the hearing if one is held. If a request for a public hearing is made within 30 days of the date of this notice and does not meet the above criteria, the Regional Administrator must advise the requesting person of his decision in writing and proceed to rule on the application.

3. Following adjournment of the public hearing, the Presiding Officer, appointed by the Regional Administrator, prepares written recommendations relating to the issuance, denial or conditions to be imposed upon the permit after full consideration of the views and arguments expressed at the hearing (40 C.F.R. section 222.6 to 222.8). The Presiding Officer's recommendations and the record of the hearing are forwarded to the Regional Administrator within 30 days of the hearing.

4. The Regional Administrator makes a determination whether to issue, deny or impose conditions on the permit within 30 days of receipt of the Presiding Officer's recommendations. He must give written notice of the decision to any person appearing at the public hearing (40 C.F.R. section 222.9).

5. A final permit becomes effective 10 days after issuance, if no requests for an adjudicatory hearing are received. Requests for an adjudicatory hearing may be made to the Regional Administrator within 10 days of receipt of the notice to issue or deny the permit (40 C.F.R. section 222.10 to 222.11). An appeal of the Regional Administrator's adjudicatory hearing decision may be made in writing to the Administrator of EPA within 10 days following receipt of the Regional Administrator's determination on the need for an adjudicatory hearing (40 C.F.R. section 222.12).

VII. Additional Information

For further information on the special permit, requests for copies of the permits or questions pertaining to MPRSA regulations, please contact:

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FACT SHEET - APPENDIX A

PERMIT DATA FOR STAR-KIST SAMOA - PAGES 1 TO 7

PERMIT DATA FOR SAMOA PACKING COMPANY - PAGES 8 TO 16

PERMIT WRITER'S GUIDANCE DOCUMENT
TABLE OF CONSTANTS - PAGES 17 TO 18

DAF SLUDGE. STARKIST SAMOA

- REVISED 12/18/89

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3	
03/87	124590	297750	1444	5728	5054	6.0	820000	1.01	2175	
04/87	151960	235000	1014	12600	30141	6.2	775000	0.91	1350	
05/87	154788	147000	634	7000	20222	5.1	849000	0.98	842	
06/87	107490	179250	1398	6050	50011	6.0	819000	0.97	2810	
07/87	175580	243750	2165	6381	16086	6.0	162615	0.70	1775	
08/87	188590	99500	1732	4975	35977	6.0	178079	0.94	4375	
09/87	118170	337500	1742	1525	8051	5.7	133000	0.99		
10/87	132000	281250	1240	6742	72000	6.5	137000	0.94	608	
11/87	85000		1420	5490	49000	6.5	84950	1.00	1675	
12/87	109750	168450	2408	8957	52500	5.9	138350	1.01	3847	
01/88	83250	130280	914	10085	13434	6.5	106950	0.91	935	
02/88	96400	180740	1674	7630	61500	6.5	96750	1.03	2350	
03/88	115000	180740	1674	7430	61500	6.5	136000	1.01	2350	
04/88	94100	199036	686	1880	63000	5.7	120000	1.00	793	
05/88	79000	227344	1842	8545	75500	5.6	110500	1.02	2085	
06/88	80000	227344	1842	5875	64500	5.6	108000	1.02	2085	
07/88	56850	232000	1552	3575	41000	5.5	81500	1.01	1570	
08/88	82500	216000	1088	6500	57000	5.9	81450	0.95	2810	
09/88	60750	244500	2302	4000	45000	5.9	97500	0.99	2440	
10/88	92000	215000	1002	5788	44500	5.4	117000	1.01	2775	
11/88	65500	204500	350	7013	47500	5.5	86850	1.01	5550	
12/88	67000	374250	1418	6750	81000	5.6	133000	1.01	8900	
01/89	76000	138000	788	4485	63000	6.8	104500	1.01	1950	
02/89	65500	194000	530	7025	61000	5.5	87850	0.99	550	
03/89	75000	153000	1248	10000	55000	5.7	106000	1.00	1280	
04/89	174000	141500	335500	746	19000	78500	5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	59000	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	78000	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	72500	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	28500	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	55500	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	50000	5.9	135000	1.03	925
MAX	174000	188590	374250	2408	19000	81000	6.8	849000	1.03	8900
MIN	118000	39650	99500	350	1525	5054	5.1	81450	0.70	195
MEAN	145857	100826	212041	1247	6897	49859	5.9	204230	0.98	2069
SD	21217	34702	65552	542	3294	21002	0.4	236182	0.06	1745
N	7	32	29	32	32	32	32	32	32	31
M + 2	188290	170230	343145	2331	13485	91862	6.7	676593	1.11	5559
M - 2	103424	31421	80937	163	308	7855	5.1	-268134	0.86	-1421

Adjusted Data, Outliers > Mean + 2 Standard Deviations

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87	124590	297750	1444	5728		6.0		1.01	2175
04/87	151960	235000	1014	12600	30141	6.2		0.91	1350

05/87	154788	147000	634	7000	20222	5.1		0.98	842
06/87	107490	179250	1398	6050	50011	6.0		0.97	2810
07/87		243750	2165	6381	16086	6.0	162615		1775
08/87		99500	1732	4975	35977	6.0	178079	0.94	4375
09/87	118170	337500	1742	1525	8051	5.7	133000	0.99	
10/87	132000	281250	1240	6742	72000	6.5	137000	0.94	608
11/87	85000		1420	5490	49000	6.5	84950	1.00	1675
12/87	109750	168450		8957	52500	5.9	138350	1.01	3847
01/88	83250	130280	914	10085	13434	6.5	106950	0.91	935
02/88	96400	180740	1674	7630	61500	6.5	96750	1.03	2350
03/88	115000	180740	1674	7430	61500	6.5	136000	1.01	2350
04/88	94100	199036	686	1880	63000	5.7	120000	1.00	793
05/88	79000	227344	1842	8545	75500	5.6	110500	1.02	2085
06/88	80000	227344	1842	5875	64500	5.6	108000	1.02	2085
07/88	56850	232000	1552	3575	41000	5.5	81500	1.01	1570
08/88	82500	216000	1088	6500	57000	5.9	81450	0.95	2810
09/88	60750	244500	2302	4000	45000	5.9	97500	0.99	2440
10/88	92000	215000	1002	5788	44500	5.4	117000	1.01	2775
11/88	65500	204500	350	7013	47500	5.5	86850	1.01	5550
12/88	67000		1418	6750	81000	5.6	133000	1.01	
01/89	76000	138000	788	4485	63000		104500	1.01	1950
02/89	65500	194000	530	7025	61000	5.5	87850	0.99	550
03/89	75000	153000	1248	10000	55000	5.7	106000	1.00	1280
04/89	174000	141500	335500	746		5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	5.9	135000	1.03	925
MAX	174000	154788	337500	2302	12600	6.5	178079	1.03	5550
MIN	118000	39650	99500	350	1525	5.1	81450	0.91	195
MEAN	145857	95408	206248	1210	6506	5.9	116869	0.99	1841
SD	21217	28260	58710	507	2484	0.4	25034	0.03	1220
N	7	30	28	31	31	31	28	31	30
OUTL	0	2	1	1	1	1	4	1	1

Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87	11.73	12.60	7.28	8.65		1.79		0.01	7.68
04/87	11.93	12.37	6.92	9.44	10.31	1.82		-0.09	7.21
05/87	11.95	11.90	6.45	8.85	9.91	1.64		-0.02	6.74
06/87	11.59	12.10	7.24	8.71	10.82	1.79		-0.03	7.94
07/87		12.40	7.68	8.76	9.69	1.79	12.00		7.48
08/87		11.51	7.46	8.51	10.49	1.79	12.09	-0.06	8.38
09/87	11.68	12.73	7.46	7.33	8.99	1.74	11.80	-0.02	
10/87	11.79	12.55	7.12	8.82	11.18	1.87	11.83	-0.06	6.41
11/87	11.35		7.26	8.61	10.80	1.87	11.35	0.00	7.42
12/87	11.61	12.03		9.10	10.87	1.77	11.84	0.01	8.26

01/88		11.33	11.78	6.82	9.22	9.51	1.87	11.58	-0.09	6.84
02/88		11.48	12.10	7.42	8.94	11.03	1.87	11.48	0.03	7.76
03/88		11.65	12.10	7.42	8.91	11.03	1.87	11.82	0.01	7.76
04/88		11.45	12.20	6.53	7.54	11.05	1.74	11.70	0.00	6.68
05/88		11.28	12.33	7.52	9.05	11.23	1.72	11.61	0.02	7.64
06/88		11.29	12.33	7.52	8.68	11.07	1.72	11.59	0.01	7.64
07/88		10.95	12.35	7.35	8.18	10.62	1.71	11.31	0.01	7.36
08/88		11.32	12.28	6.99	8.78	10.95	1.77	11.31	-0.05	7.94
09/88		11.01	12.41	7.74	8.29	10.71	1.77	11.49	-0.01	7.80
10/88		11.43	12.28	6.91	8.66	10.70	1.69	11.67	0.01	7.93
11/88		11.09	12.23	5.86	8.86	10.77	1.70	11.37	0.01	8.62
12/88		11.11		7.26	8.82	11.30	1.72	11.80	0.01	
01/89		11.24	11.84	6.67	8.41	11.05		11.56	0.01	7.58
02/89		11.09	12.18	6.27	8.86	11.02	1.70	11.38	-0.01	6.31
03/89		11.23	11.94	7.13	9.21	10.92	1.74	11.57	0.00	7.15
04/89	12.07	11.86	12.72	6.61		11.27	1.69	11.92	0.00	6.91
05/89	11.68	11.54	11.94	6.17	8.65	10.99	1.72	11.47	-0.01	6.17
06/89	11.84	11.39	12.25	6.34	7.63	11.26	1.82	11.68	0.02	6.78
07/89	11.98	10.59	11.81	6.83	9.12	11.19	1.77	11.85	0.02	7.63
08/89	11.70	11.48		6.82	9.07	10.26	1.72	11.51	0.03	6.60
09/89	11.92	11.51	12.25	6.97	9.10	10.92	1.72	11.74	0.02	5.27
10/89	11.98	11.70		7.00	8.56	10.82	1.77	11.81	0.03	6.83

MEAN	11.88	11.42	12.20	7.00	8.69	10.73	1.77	11.65	-0.01	7.29
SD	0.15	0.31	0.29	0.47	0.48	0.55	0.06	0.21	0.03	0.73
N	7	30	28	31	31	31	31	28	31	30

LN PL	12.39	12.11	12.84	8.04	9.76	11.96	1.91	12.12	0.07	8.92
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LIMIT	240016	181612	376521	3109	17332	156070	6.7	182923	1.07	7469
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density range

-0.08
0.92

PRECOOKER WATER STARKIST SAMOA

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89	18700	1867	59500	380	3400	2600	5.6	13400	1.00	574
05/89	69700	11200	79500	1844	8100	690	6.2	53000	1.02	204
06/89	119000	25400	97500	618	7900	23000	6.0	96000	1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	13667
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100	369750	438	11000	840	5.9	47000	1.02	16000
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
MAX	119000	25400	369750	1844	11000	23000	6.3	96000	1.04	16000
MIN	18700	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	74343	4719	121297	556	4566	2527	5.9	29386	1.01	2509
SD	31596	5960	81931	357	3275	5091	0.3	25566	0.02	4371
N	7	20	18	20	20	20	20	20	20	20
M + 2	137534	16638	285159	1269	11116	12709	6.5	80518	1.04	11251
M - 2	11151	-7200	-42564	-158	-1985	-7656	5.4	-21746	0.97	-6233

Adjusted Data. Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89	18700	1867	59500	380	3400	2600	5.6	13400	1.00	574

05/89	69700	11200	79500		8100	690	6.2	53000	1.02	204
06/89	119000		97500	618	7900		6.0		1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100		438	11000	840	5.9	47000	1.02	
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
MAX	119000	15000	218500	856	11000	8000	6.3	76000	1.04	3750
MIN	18700	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	74343	3631	106682	488	4566	1449	5.9	25880	1.01	1140
SD	31596	3533	55201	193	3275	1688	0.3	20747	0.02	1157
N	7	19	17	19	20	19	20	19	20	18
OUTL1	0	1	1	1	0	1	0	1	0	2

Natural Log of Adjusted Data and Calculation of Permit Limit
 $\gamma = 0.95$, $P = 0.95$

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		7.51	12.04	6.75	7.66	6.09	1.82	9.80	-0.01	5.31
07/88		8.17	12.17	6.48	8.05	6.46	1.77	9.95	-0.01	5.18
07/88		8.16	12.17	5.52	7.74	7.09	1.81	9.97	0.00	5.19
07/88		7.73	12.29	5.97	8.06	7.09	1.77	9.93	-0.02	5.44
07/88		7.92	11.46	6.53	8.39	6.67	1.72	10.15	-0.01	7.84
08/88		7.70	10.99	6.43	8.29	6.61	1.81	9.92	-0.01	6.92
09/88		7.60	11.04	6.33	7.57	6.91	1.84	9.53	0.00	7.79
10/88		7.50	11.34	5.94	7.20	7.70	1.72	8.82	0.02	6.28
11/88		7.29	10.09	5.69	7.29	6.67	1.72	9.31	-0.02	7.95
12/88		7.38	11.54	6.74	8.54	8.99	1.70	8.41	0.00	8.23
01/89		7.37	11.28	6.16	7.17	6.82	1.79	9.39	0.01	7.72
02/89		7.50	11.77	5.63	7.29	6.75	1.72	8.68	0.01	4.55
03/89		7.90	11.18	5.63	7.54	6.82	1.84	9.34	0.00	5.34
04/89	9.84	7.53	10.99	5.94	8.13	7.86	1.72	9.50	0.00	6.35
05/89	11.15	9.32	11.28		9.00	6.54	1.82	10.88	0.02	5.32
06/89	11.69		11.49	6.43	8.97		1.79		0.03	6.75
07/89	11.34	8.56	11.47	6.44	8.97	6.58	1.81	11.00	0.04	
08/89	11.50	9.62		5.58	9.31	6.79	1.84	11.24	0.03	7.60
09/89	11.07	8.32		6.08	9.31	6.73	1.77	10.76	0.02	
10/89	11.10	7.86		5.90	9.04	7.65	1.82	10.82	0.04	6.19
MEAN	11.10	7.94	11.45	6.12	8.18	6.99	1.78	9.86	0.01	6.44
SD	0.60	0.64	0.55	0.40	0.73	0.66	0.05	0.81	0.02	1.19
N	7	19	17	19	20	19	20	19	20	18
LN PL	13.14	9.50	12.81	7.08	9.94	8.58	1.89	11.82	0.05	9.36
LIMIT	508240	13303	365446	1192	20641	5325	6.6	135333	1.05	11628

density range

-0.04
0.96

PRESS WATER. STAKIST SAMOA

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000	3.3	60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89	91100	56600	99500	854	13000	37000	5.9	82600	1.01	1390
05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000	170000	231500	528	4440	71000	6.2	190000	1.04	28667
08/89	210000	130000		922	21000	24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
MAX	220000	170000	283000	1364	21000	71000	6.4	200000	1.05	28667
MIN	91100	12000	94000	327	2200	5800	3.3	20900	0.98	84
MEAN	187586	61723	165070	775	8386	23190	5.9	94048	1.01	3215
SD	45997	46287	65105	303	5791	14977	0.6	60803	0.02	6211
N	7	20	18	20	20	20	20	20	20	20
M + 2	279580	154297	295280	1381	19967	53145	7.2	215653	1.05	15637
M - 2	95591	-30852	34860	169	-3196	-6765	4.6	-27558	0.97	-9207

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000		60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89		56600	99500	854	13000	37000	5.9	82600	1.01	1390

05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000		231500	528	4440		6.2	190000	1.04	
08/89	210000	130000		922		24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
MAX	220000	130000	283000	1364	18000	45000	6.4	200000	1.05	5175
MIN	167000	12000	94000	327	2200	5800	5.6	20900	0.98	84
MEAN	203667	56024	165070	775	7722	20674	6.1	94048	1.01	1876
SD	19149	39698	65105	303	5108	10154	0.2	60803	0.02	1685
N	6	19	18	20	19	19	19	20	20	19
OUTLI	1	1	0	0	1	1	1	0	0	1

Natural Log of Adjusted Data and Calculations of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	D & B	PH	TVS	DENS	NH3
06/88		10.97	12.29	6.95	8.98	9.95	1.81	11.07	0.00	6.02
07/88		10.48	12.48	5.96	8.12	9.21		11.02	0.00	5.75
07/88		10.57	12.46	6.31	8.23	9.85	1.79	11.12	0.00	6.08
07/88		10.30	12.55	5.93	8.54	9.47	1.84	10.93	-0.02	6.71
07/88		10.60	11.61	6.79	9.05	9.74	1.77	11.10	-0.01	8.55
08/88		10.71	11.59	6.81	8.93	9.80	1.86	11.18	0.00	8.49
09/88		9.49	11.46	6.92	7.70	9.47	1.84	10.74	0.01	7.51
10/88		9.90	11.45	6.69	8.16	9.74	1.72	10.52	0.01	4.43
11/88		10.19	11.72	5.79	8.24	9.74	1.77	10.86	0.00	7.68
12/88		10.03	11.50	7.01	7.77	9.74	1.79	10.47	-0.02	8.00
01/89		10.79	11.83	6.25	8.71	9.85	1.80	11.26	0.00	8.20
02/89		9.39	12.01	6.31	8.19	9.47	1.77	9.95	-0.02	8.52
03/89		10.48	11.85	6.45	9.28	9.85	1.82	11.01	0.01	5.92
04/89		10.94	11.51	6.75	9.47	10.52	1.78	11.32	0.01	7.24
05/89	12.03	11.45	11.88	7.22	9.61	10.28	1.81	11.85	0.02	7.01
06/89	12.28	11.67	12.09	6.22	9.20	8.67	1.79	12.17	0.04	5.93
07/89	12.25		12.35	6.27	8.40		1.82	12.15	0.04	
08/89	12.25	11.78		6.83		10.09	1.81	12.10	0.05	7.31
09/89	12.21	11.78	12.33	6.90	9.80	10.57	1.79	12.10	0.03	7.60
10/89	12.30	11.61		7.13	9.80	10.71	1.81	12.21	0.05	7.05
MEAN	12.22	10.69	11.94	6.57	8.75	9.83	1.80	11.26	0.01	7.05
SD	0.10	0.73	0.39	0.42	0.66	0.49	0.03	0.65	0.02	1.13
N	6	19	18	20	19	19	19	20	20	19
LN PL	12.59	12.46	12.90	7.58	10.35	11.00	1.87	12.81	0.06	9.79
LIMIT	294303	257838	399089	1963	31397	60118	6.5	364260	1.06	17825
density range									-0.04	
									0.96	

DAF SLUDGE. SAMOA PACKING

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600	3390	4200	42600	6.0	110900	1.07	1305
06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500	7.5	136500	0.95	5550
03/88		261000	117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88		276500	210750	1078	4875	245000	6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500	0.57	915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850	22000	155000	5.9	238000	0.95	1500
05/89	215000		553000	760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500	3450	10200	65000	6.1	135000	0.96	1900
08/89	174500		155250	3450	11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000	5.3	300000	0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
MAX	315000	276500	553000	3450	22000	245000	7.5	300000	1.07	5550
MIN	109500	50870	8200	150	1478	13000	5.3	51000	0.57	412
MEAN	193125	135266	118815	1465	5604	88967	6.2	144033	0.95	1373
SD	68187	57894	105731	867	4033	51662	0.5	61578	0.09	918
N	8	23	29	31	31	31	31	29	30	29
M + 2	329498	251054	330277	3200	13670	192291	7.2	267189	1.12	3209
M - 2	56752	19478	-92648	-270	-2462	-14357	5.3	20876	0.77	-463

Adjusted Data. Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600		4200	42600	6.0	110900	1.07	1305

06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500		136500	0.95	
03/88			117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88			210750	1078	4875		6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500		915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850		155000	5.9	238000	0.95	1500
05/89	215000			760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500		10200	65000	6.1	135000	0.96	1900
08/89	174500		155250		11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000	5.3		0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
MAX	315000	203000	270000	2396	11500	160000	7	267000	1.07	2600
MIN	109500	50870	8200	150	1478	13000	5	51000	0.81	412
MEAN	193125	122553	103308	1254	5058	83766	6	138463	0.96	1224
SD	68187	41586	66043	601	2692	43514	0	54765	0.05	452
N	8	21	28	28	30	30	30	28	29	28
OUTL	0	2	1	3	1	1	1	1	1	1

Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		10.84	11.14	5.99	7.30	10.98	1.87		0.05	
04/87		11.20	11.00	7.43	8.39	11.20	1.82			
05/87		11.84	11.23		8.34	10.66	1.79	11.62	0.07	7.17
06/87		12.09	11.39	6.15	8.22	11.93	1.95	12.04	-0.01	6.86
07/87		11.63	11.12	7.29	8.67	11.45	1.89	11.46	0.00	7.03
08/87		11.67	10.41	5.01	8.19	10.61	1.86	11.57	0.00	6.02
09/87		11.96	11.29	7.38	8.40	11.14	1.79	11.81	-0.03	7.19
10/87		11.57	10.82	7.54	8.96	10.52	1.74	11.33	0.00	7.86
11/87		11.81	11.30	7.14	8.35	10.99	1.77	11.70	-0.05	6.89
12/87										
01/88		11.24	9.91	7.23	7.90	9.47	1.69	11.07	0.00	6.75

02/88		11.89	11.04	6.43	7.35	11.43		11.82	-0.05	
03/88			11.67	7.09	7.76	11.98	1.70	12.41	0.00	7.33
04/88		11.82	11.37	6.52	7.55	11.26	1.89	11.75	-0.04	7.09
05/88		12.07	11.86	6.70	8.54	11.78	1.92	12.01	-0.06	6.78
06/88		11.36	10.97	7.14	8.09	11.37	1.89	11.31	-0.01	7.23
07/88		11.84	12.09	7.73	8.19	11.95	1.86	11.79	-0.11	6.53
08/88		10.89	11.23	7.07	8.41	10.66	1.86	10.84	-0.09	6.71
09/88		11.59	11.44	7.21	8.28	11.50	1.86	11.58	-0.11	6.52
10/88			12.26	6.98	8.49		1.89	12.50	-0.03	6.69
11/88		11.93	11.73	7.73	8.74	11.34	1.89	11.83	-0.02	7.35
12/88		11.32		7.53	8.58	10.72	1.84	11.22		6.82
01/89		12.22		6.61	8.71	11.92	1.72	12.17	-0.05	6.81
02/89		11.94	11.07	7.78	9.05	10.53	1.82	11.78	0.01	7.35
03/89	11.60		11.24	6.84	7.94	11.10	1.84	11.54	-0.21	6.87
04/89	12.44		12.38	7.52		11.95	1.77	12.38	-0.05	7.31
05/89	12.28			6.63	9.20	11.70	1.81	12.24	-0.11	7.08
06/89	11.72		9.01	6.57	7.94	10.79	1.86	11.66	-0.09	7.38
07/89	11.95		11.43		9.23	11.08	1.81	11.81	-0.04	7.55
08/89	12.07		11.95		9.35	9.95	1.79	11.97	-0.04	7.41
09/89	12.66		12.51	7.52	9.22	11.70	1.67		-0.01	7.38
10/89	12.21		12.28	6.89	8.50	11.70	1.84	12.15	-0.07	7.24
MEAN	12.12	11.65	11.33	6.99	8.39	11.18	1.82	11.76	-0.04	7.04
SD	0.35	0.38	0.74	0.61	0.54	0.62	0.07	0.40	0.05	0.38
N	8	21	28	28	30	30	30	28	29	28
LN PL	13.25	12.56	12.97	8.35	9.58	12.55	1.97	12.65	0.08	7.89
LIMIT	566556	285817	429466	4241	14534	280966	7.2	313060	1.08	2666
density range									-0.16	
									0.85	

PRECOOKER WATER. SAMOA PACKING

REVISED 12/18/89

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3	
04/87	8810	37986	48	832	41333	6.2				
05/87	55000	31400	1295	8190	3900	6.0	39800	1.02	216	
06/87	83700	34500	458	3500	30300	7.0	77300	1.01	120	
07/87	51500	17500	406	4680	5760	6.6	28800	1.02	94	
08/87	102000	34100	92	2890	53600	6.4	89700	1.01	1240	
09/87	33200	16500	364	2100	3140	6.0	27600	1.01	209	
10/87	27450	13500	439	3650	1600	5.7	20400	1.01	575	
11/87	59400	33000	742	5071	21000	5.9	44600	0.96	200	
12/87										
01/88	25700	10750	320	2615	1070	5.4	19400	1.00	220	
02/88	93100	10400	239	1780	340000	7.5	89400	0.97	5000	
03/88	13200	12800	206	1480	1400	5.5	8200	1.00	900	
04/88	1580		8	35	92	6.6	500	1.00	7	
05/88	724000	419000	282	1534	550000	6.8	714000	0.96	117	
06/88	2800	8500	243	1950	270	6.6	2650	1.00	60	
07/88	3700	22800	648	6135	160	6.4	3700	0.99	101	
08/88	3850	7600	223	2360	240	6.4	3650	0.99	60	
09/88	3400	21400	644	3210	28000	6.5	43400	0.98	236	
10/88	12400	7600	129	1380	4900	6.4	10100	1.00	163	
11/88	50300	32500	401	4180	16000	6.4	43500	1.02	1600	
12/88	3230		89	420	1060	6.2	1840	0.96	59	
01/89	27700		626	3025	1500	6.3	14400	1.01	1555	
02/89	20000	8400	188	1550	530	6.0	14000	1.00	50	
03/89	20400	9000	200	1480	380	6.0	14300	1.01	76	
04/89	39800	33200	420	5700	9700	6.2	33200	1.01	76	
05/89	602000		112	1000	180000	6.3	599000	0.93	2	
06/89	172000	19000	360	2100	26000	6.3	164000	1.00	67	
07/89	56000	18000	790	7300	830	5.9	38000	1.02	110	
08/89	43000	27625	600	5800	8532	5.9	32000	1.00	200	
09/89	28000	13000	290	5300	190	6.2	21000	1.01	76	
10/89	38000	26000	630	5300	730	6.0	28000	1.02	98	
MAX	602000	724000	419000	1295	8190	550000	7.5	714000	1.02	5000
MIN	20400	1580	7600	8	35	92	5.4	500	0.93	2
MEAN	124900	63910	35618	383	3218	44407	6.3	76774	1.00	465
SD	198711	150599	78833	275	2111	117335	0.4	164959	0.02	978
N	8	22	26	30	30	30	30	29	29	29
M + 2	522321	365108	193283	934	7439	279077	7.1	406691	1.04	2421
M - 2	-272521	-237288	-122048	-167	-1003	-190262	5.4	-253143	0.95	-1491

Adjusted Data. Outliers > 2 Standard Deviations

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87	8810	37986	48	832	41333	6.2			
05/87	55000	31400			3900	6.0	39800	1.02	216
06/87	83700	34500	458	3500	30300	7.0	77300	1.01	120

07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780			89400	0.97	
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88				282	1534		6.8		0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89				112	1000	180000	6.3			2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
MAX	172000	102000	37986	790	7300	180000	7.0	164000	1.02	1600
MIN	20400	1580	7600	8	35	92	5.4	500	0.96	2
MEAN	56743	32477	20282	352	3047	15793	6.2	33831	1.00	303
SD	52056	31475	10214	219	1924	35136	0.4	35815	0.02	451
N	7	21	25	29	29	28	29	27	28	28
OUTLI	1	1	1	1	1	2	1	2	1	1

Natural Log of Adjusted Data and Calculations of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		9.08	10.54	3.87	6.72	10.63	1.82			
05/87		10.92	10.35			8.27	1.79	10.59	0.02	5.38
06/87		11.33	10.45	6.13	8.16	10.32	1.95	11.26	0.01	4.79
07/87		10.85	9.77	6.01	8.45	8.66	1.89	10.27	0.02	4.54
08/87		11.53	10.44	4.52	7.97	10.89	1.86	11.40	0.01	7.12
09/87		10.41	9.71	5.90	7.65	8.05	1.79	10.23	0.01	5.34
10/87		10.22	9.51	6.08	8.20	7.38	1.74	9.92	0.01	6.35
11/87		10.99	10.40	6.61	8.53	9.95	1.77	10.71	-0.04	5.30
12/87										
01/88		10.15	9.28	5.77	7.87	6.98	1.69	9.87	0.00	5.39
02/88		11.44	9.25	5.48	7.48			11.40	-0.03	
03/88		9.49	9.46	5.33	7.30	7.24	1.70	9.01	0.00	6.80

04/88		7.37		2.08	3.56	4.52	1.89	6.21	0.00	1.95
05/88				5.64	7.34		1.92		-0.04	4.76
06/88		7.94	9.05	5.49	7.58	5.60	1.89	7.88	0.00	4.09
07/88		8.22	10.03	6.47	8.72	5.08	1.86	8.22	-0.01	4.62
08/88		8.26	8.94	5.41	7.77	5.48	1.86	8.20	-0.01	4.09
09/88		8.13	9.97	6.47	8.07	10.24	1.87	10.68	-0.02	5.46
10/88		9.43	8.94	4.86	7.23	8.50	1.86	9.22	0.00	5.09
11/88		10.83	10.39	5.99	8.34	9.68	1.86	10.68	0.02	7.38
12/88		8.08		4.49	6.04	6.97	1.82	7.52	-0.04	4.08
01/89		10.23		6.44	8.01	7.31	1.84	9.57	0.01	7.35
02/89		9.90	9.04	5.24	7.35	6.27	1.79	9.55	0.00	3.91
03/89	9.92		9.10	5.30	7.30	5.94	1.79	9.57	0.01	4.33
04/89	10.59		10.41	6.04	8.65	9.18	1.82	10.41	0.01	4.33
05/89				4.72	6.91	12.10	1.84			0.69
06/89	12.06		9.85	5.89	7.65	10.17	1.84	12.01	0.00	4.20
07/89	10.93		9.80	6.67	8.90	6.72	1.77	10.55	0.02	4.70
08/89	10.67		10.23	6.40	8.67	9.05	1.77	10.37	0.00	5.30
09/89	10.24		9.47	5.67	8.58	5.25	1.82	9.95	0.01	4.33
10/89	10.55		10.17	6.45	8.58	6.59	1.79	10.24	0.02	4.58
MEAN	10.71	9.75	9.78	5.57	7.71	7.96	1.82	9.83	0.00	4.87
SD	0.68	1.31	0.55	0.97	1.05	2.03	0.06	1.31	0.02	1.43
N	7	21	25	29	29	28	29	27	28	28
LN PL	13.21	12.86	11.04	7.72	10.03	12.48	1.95	12.75	0.04	8.05
LIMIT	548130	386510	62062	2256	22763	263335	7.1	344839	1.04	3119
density range									-0.04	
									0.96	

PRESS WATER, SAMOA PACKING

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5			
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05	493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05	1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05	2300
08/87		280000	213000	1820	21915	117000	6.6	253000	0.94	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01	362
10/87		441000	188000	11360	10752	250000	6.1	409000	1.04	5800
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00	540
12/87										
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03	759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98	3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03	430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04	1920
05/88		276500	140000	1902	17025	92500	7.5	248000	1.03	306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05	351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00	286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02	1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02	740
10/88		540000	25700	1360	10500	390000	6.5	527000	0.99	530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04	1700
12/88		225000		1532	10880	87300	6.1	197000	0.93	820
01/89		273000		1656	12060	250000	6.2	252000	1.05	1110
02/89		315000	460000	3587	12623	260000	5.9	295000	1.02	821
03/89	306000		140000	1460	48000	25000	5.7	279000	1.01	254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01	390
05/89	459000		161000	1432	14000	150000	6.3	439000	1.00	310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03	4750
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03	280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02	440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03	3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03	610
MAX	459000	540000	460000	11360	48000	390000	7.5	527000	1.05	5800
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.93	254
MEAN	275250	287222	168954	2108	15721	132090	6.3	259731	1.02	1331
SD	82502	79926	83720	1878	8415	79940	0.4	80626	0.03	1440
N	8	22	28	30	29	30	30	29	29	29
M + 2	440253	447073	336395	5865	32550	291970	7.2	420984	1.08	4211
M - 2	110247	127371	1514	-1648	-1108	-27791	5.5	98478	0.96	-1550

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5		
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05

07/87	308000	160000	2370	10750	147000	6.8	251000	1.05	2300	
08/87	280000	213000	1820	21915	117000	6.6	253000		2620	
09/87	247100	197000	2310	12200	81800	5.6	202100	1.01	362	
10/87	441000	188000	11360	10752	250000	6.1	409000	1.04		
11/87	190000	116000	1307	11279	66000	6.5	156000	1.00	540	
12/87										
01/88	296100	122000	2234	19300	51000	6.1	269900	1.03	759	
02/88	386000	130000	1425	22100	210000	6.8	338000	0.98	3070	
03/88	254000	166000	1464	11300	110000	6.0	227000	1.03	430	
04/88	268000	224900	1842	7500	102000	6.2	242000	1.04	1920	
05/88	276500	140000	1902	17025	92500		248000	1.03	306	
06/88	207000	165000	1890	13794	110000	6.8	203000	1.05	351	
07/88	276000	208000	1605	10175	190000	6.1	275000	1.00	286	
08/88	236000	168000	1648	6310	120000	6.2	234000	1.02	1085	
09/88	257000	255000	1124	5850	180000	6.2	213000	1.02	740	
10/88		25700	1360	10500		6.5		0.99	530	
11/88	227000	102000	1672	17800	79000	6.2	206000	1.04	1700	
12/88	225000		1532	10880	87300	6.1	197000		820	
01/89	273000		1656	12060	250000	6.2	252000	1.05	1110	
02/89	315000		3587	12623	260000	5.9	295000	1.02	821	
03/89	306000	140000	1460		25000	5.7	279000	1.01	254	
04/89	288000	270000	1500	30000	62000	6.2	270000	1.01	390	
05/89		161000	1432	14000	150000	6.3		1.00	310	
06/89	208000	160000	1040	12500	175000	7.1	185000	1.03		
07/89	230000	150000	2000	14300	58000	5.9	200000	1.03	280	
08/89	211000	27750	2100	20000	87516	5.9	184000	1.02	440	
09/89	270000	280000	1800	22000	100000	6.9	240000	1.03	3900	
10/89	230000	160000	1600	20000	34000	5.9	200000	1.03	610	
MAX	306000	441000	280000	11360	30000	260000	7	409000	1	3900
MIN	208000	190000	25700	60	5850	25000	6	156000	1	254
MEAN	249000	275185	158175	2108	14568	123196	6	243193	1	1039
SD	38854	57970	62450	1878	5784	64507	0	52279	0	963
N	7	21	27	30	28	29	29	27	27	27
OUTLI	1	1	1	0	1	1	1	2	2	2

Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		12.30	11.06	4.09			11.28	1.87		
05/87		12.56	11.80	8.25	9.10		11.79	1.92	12.45	0.05
06/87		12.65	11.88	7.76	10.00		12.02	1.92	12.55	0.05
07/87		12.64	11.98	7.77	9.28		11.90	1.92	12.43	0.05
08/87		12.54	12.27	7.51	9.99		11.67	1.89	12.44	
09/87		12.42	12.19	7.75	9.41		11.31	1.72	12.22	0.01
10/87		13.00	12.14	9.34	9.28		12.43	1.81	12.92	0.04
11/87		12.15	11.66	7.18	9.33		11.10	1.87	11.96	0.00
12/87										
01/88		12.60	11.71	7.71	9.87		10.84	1.81	12.51	0.03
02/88		12.86	11.78	7.26	10.00		12.25	1.92	12.73	-0.02
03/88		12.45	12.02	7.29	9.33		11.61	1.79	12.33	0.03

04/88		12.50	12.32	7.52	8.92	11.53	1.82	12.40	0.04	7.56
05/88		12.53	11.85	7.55	9.74	11.43		12.42	0.03	5.72
06/88		12.24	12.01	7.54	9.53	11.61	1.92	12.22	0.05	5.86
07/88		12.53	12.25	7.38	9.23	12.15	1.81	12.52	0.00	5.66
08/88		12.37	12.03	7.41	8.75	11.70	1.82	12.36	0.02	6.99
09/88		12.46	12.45	7.02	8.67	12.10	1.82	12.27	0.02	6.61
10/88			10.15	7.22	9.26		1.87		-0.01	6.27
11/88		12.33	11.53	7.42	9.79	11.28	1.82	12.24	0.04	7.44
12/88		12.32		7.33	9.29	11.38	1.81	12.19		6.71
01/89		12.52		7.41	9.40	12.43	1.82	12.44	0.05	7.01
02/89		12.66		8.19	9.44	12.47	1.77	12.59	0.02	6.71
03/89	12.63		11.85	7.29		10.13	1.74	12.54	0.01	5.54
04/89	12.57		12.51	7.31	10.31	11.03	1.82	12.51	0.01	5.97
05/89			11.99	7.27	9.55	11.92	1.84		0.00	5.74
06/89	12.25		11.98	6.95	9.43	12.07	1.96	12.13	0.03	
07/89	12.35		11.92	7.60	9.57	10.97	1.77	12.21	0.03	5.63
08/89	12.26		10.23	7.65	9.90	11.38	1.77	12.12	0.02	6.09
			12.54	7.50	10.00	11.51	1.93	12.39	0.03	8.27
09/89	12.35		11.98	7.38	9.90	10.43	1.77	12.21	0.03	6.41
MEAN	12.40	12.51	11.86	7.43	9.51	11.58	1.84	12.38	0.02	6.60
SD	0.16	0.20	0.57	0.77	0.40	0.57	0.06	0.20	0.02	0.81
N	6	21	27	30	28	29	29	27	27	27
LN PL	13.00	12.97	13.12	9.14	10.40	12.85	1.98	12.83	0.07	8.41
LIMIT	443512	430483	500583	9277	32896	381761	7.2	374353	1.07	4486
density range									-0.02	
									0.98	

GUIDANCE DOCUMENT FOR
OCEAN DUMPING PERMIT WRITERS

Contract No. 68-03-3319
Work Assignment 1-68

January 30, 1988

Prepared for
U.S. Environmental Protection Agency
Office of Marine and Estuarine Protection
Washington, DC

by
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
8400 Westpark Drive
McLean, VA 22102

Under contract to
BATTELLE
Ocean Sciences
397 Washington Street
Duxbury, MA 02332

TABLE 3-2. CONSTANTS FOR USE IN CALCULATING PERMIT LIMITS (continued).

*The two starred values have been corrected to the values given by D. B. Owen in "Factors for One-Sided Tolerance Limits and for Variables Sampling Plans". Sandia Corporation Monograph SCR-607, available from the Clearing House for Federal Scientific and Technical Information, U.S. Department of Commerce, Springfield, Va. 22151. The Owen Tables indicate other errors in the table below, not exceeding 4 in the last digit.

P n	$\gamma = 0.95$					$\gamma = 0.99$				
	0.75	0.90	0.95	0.99	0.999	0.75	0.90	0.95	0.99	0.999
3	3.804	6.158	7.655	10.552	13.857	—	—	—	—	—
4	2.619	4.163	5.145	7.042	9.215	—	—	—	—	—
5	2.149	3.407	4.202	5.741	7.501	—	—	—	—	—
6	1.895	3.006	3.707	5.062	6.612	2.849	4.408	5.409	7.334	9.550*
7	1.732	2.755	3.399	4.641	6.061	2.490	3.856	4.730	6.411	8.348
8	1.617	2.582	3.188	4.353	5.686	2.252	3.496	4.287	5.811	7.566
9	1.532	2.454	3.031	4.143	5.414	2.085	3.242	3.971	5.389	7.014
10	1.465	2.355	2.911	3.981	5.203	1.954	3.048	3.739	5.075	6.603
11	1.411	2.275	2.815	3.852	5.036	1.854	2.897	3.557	4.828	6.284
12	1.366	2.210	2.736	3.747	4.900	1.771	2.773	3.410	4.633	6.032
13	1.329	2.155	2.670	3.659	4.787	1.702	2.677	3.290	4.472	5.826
14	1.296	2.108	2.614	3.585	4.690	1.645	2.592	3.189	4.336	5.651
15	1.268	2.068	2.566	3.520	4.607	1.596	2.521	3.102	4.224	5.507
16	1.242	2.032	2.523	3.463	4.534	1.553	2.458	3.028	4.124	5.374
17	1.220	2.001	2.486	3.415	4.471	1.514	2.405	2.962	4.038	5.268
18	1.200	1.974	2.453	3.370	4.415	1.481	2.357	2.906	3.961	5.167
19	1.183	1.949	2.423	3.331	4.364	1.450	2.315	2.855	3.893	5.078
20	1.167	1.926	2.396	3.295	4.319	1.424	2.275	2.807	3.832	5.003
21	1.152	1.905	2.371	3.262	4.276	1.397	2.241	2.768	3.776	4.932
22	1.138	1.887	2.350	3.233	4.238	1.376	2.208	2.729	3.727	4.866
23	1.126	1.869	2.329	3.206	4.204	1.355	2.179	2.693	3.680	4.806
24	1.114	1.853	2.309	3.181	4.171	1.336	2.154	2.663	3.638	4.755
25	1.103	1.838	2.292	3.158	4.143	1.319	2.129	2.632	3.601	4.706
30	1.059	1.778	2.220	3.064	4.022	1.249	2.029	2.516	3.446	4.508
35	1.025	1.732	2.166	2.994	3.934	1.195	1.957	2.431	3.334	4.364
40	0.999	1.697	2.126	2.941	3.866	1.154	1.902	2.365	3.250	4.255
45	0.978	1.669	2.092	2.897	3.811	1.122	1.857	2.313	3.181	4.168
50	0.961	1.646	2.065	2.863	3.766	1.096	1.821	2.269*	3.124	4.096

Copy to Pat C.



VAN CAMP
SEAFOOD
COMPANY, INC.

June 18, 1993

TO: Pat Young - USEPA
FROM: Jim Cox - Van Camp
SUBJECT: MV ASTRO BREAKDOWN

The MV ASTRO suffered another engine failure on 6/15. The tug boat was used to maneuver the vessel on 6/16 through today. It will probably be needed until the new vessel, TASMAN SEA, takes over the contract. We anticipate this to occur as early as the week of 6/21.

We have had discussions with Tony Tausaga at ASEPA who had verbally approved the use of the tug boat. We had assumed the USEPA letter dated 4/28/93 to Norm Wei was meant to cover the time period until the new vessel arrived. The new vessel is a week late due to the U.S. Coast Guard delaying departure from Seattle. However, this memo is intended to request formally an extension of the June 15 deadline.

All conditions of the April 28, 1993 memo are still being followed. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "James L. Cox".

James L. Cox
Director of Engineering
and Environmental Affairs

JLC:ms
061893.3JC

Copy to Pa



VCS SAMOA
PACKING
COMPANY

June 18, 1993

Pat Young, Samoa Program Manager
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105-3901

Dear Pat:

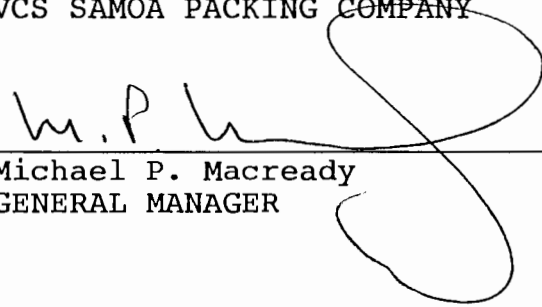
Pursuant to the requirements of the EPA letter dated April 28, 1993, regarding weekly reporting requirements while the ASTRO is under tug boat tow, SAMPAC submits that no violations of any conditions of the current ocean dumping permit has occurred during the week beginning June 16, 1993.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Sincerely,

VCS SAMOA PACKING COMPANY


Michael P. Macready
GENERAL MANAGER

MPM:mtp

cc: Tony Tausaga, ASEPA



MAY 11 1993

copy
Sm

April 30, 1993

VCS SAMOA
PACKING
COMPANY

Pat Young, Samoa Program Manager
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105-3901

Dear Pat:

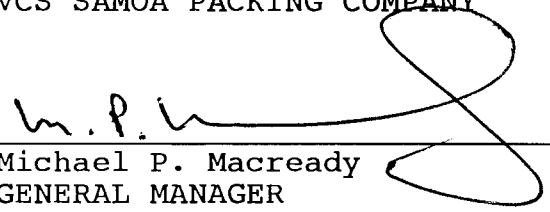
Pursuant to the requirements of the EPA letter dated April 28, 1993, regarding weekly reporting requirements while the ASTRO is under tug boat tow, SAMPAC submits that no violations of any conditions of the current ocean dumping permit has occurred.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Sincerely,

VCS SAMOA PACKING COMPANY


Michael P. Macready
GENERAL MANAGER

MPM:mtp

cc: Tony Tausaga, ASEPA



VAN CAMP
SEAFOOD
COMPANY, INC.

April 19, 1993

Pat Young
American Samoa Program Manager
USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Pat:

I received your letter regarding the plotter for the GPS. I believe this plotter is a good thing to have. However, the other things in your letter such as digital data transmission for disposal port open/close indication, flow rate, speed, and discharge times being fed into a central computer and printed out seems to me to be too much technology for our sludge operator in American Samoa to handle and extremely expensive to install and maintain.

The new sludge hauler, Blue North Fisheries, will have a more modern boat and our confidence level is very high in their capabilities to provide accurate, reliable service to the canneries.

Attached are two pages of information about the new boat, Blue North. The drawing is blurry, but the best I have now. I request that you share this with Pat Cotter and begin the process of obtaining permission for the canneries to use this vessel sometime in the near future. It should arrive in Samoa by June 1. The official date to start hauling is July 31, 1993. However, we would like the Coast Guard and EPA to allow him to begin earlier in the event the present hauler discontinues for any reason.

If further information is required, please advise. Thanks for your assistance in this matter.

Sincerely,

James L. Cox
Manager, Engineering and
Environmental Affairs

JLC:ms
041993.5JC



VAN CAMP
SEAFOOD
Company, Inc.

F A C S I M I L E M E S S A G E

4510 Executive Drive, #300
San Diego, CA 92121

PHONE: 619-597-4212
FAX NO: 619-597-4282 or
-4285

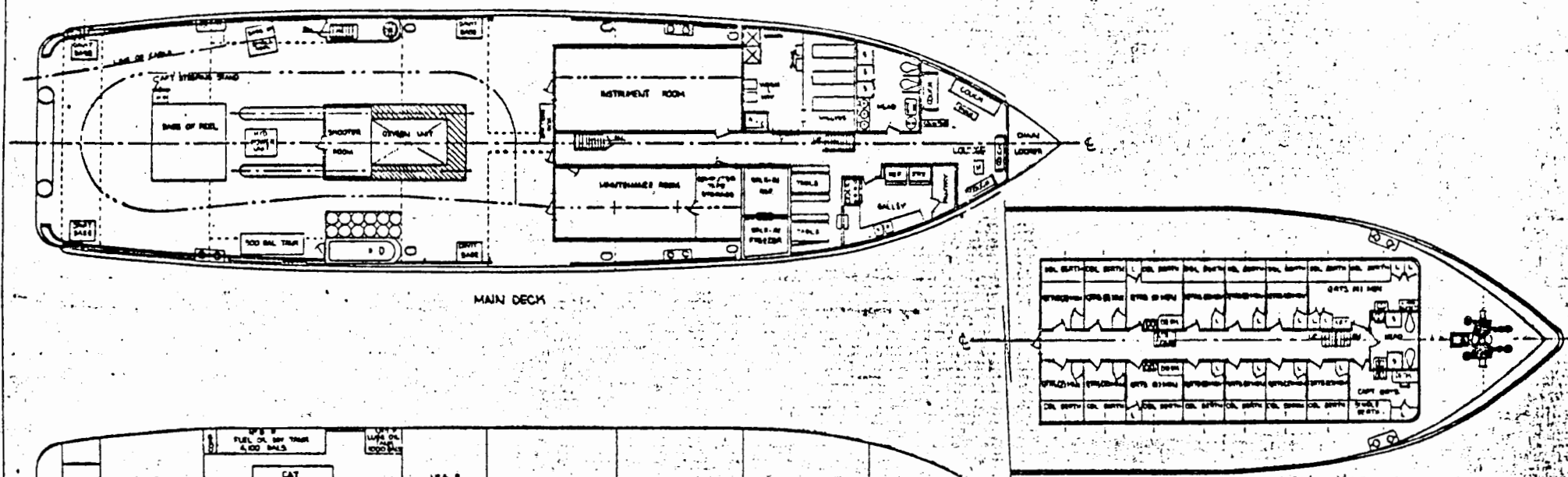
TO: MICHAEL BURNS DATE: 4/5/93
FAX: 206-782-3242
BLUE NORTH FISHERIES INC PAGE 1 OF 1 PAGES
FROM: JIM COX *Jim Cox*

Please provide a data sheet that I can send the EPA with the following information:

1. Name of Vessel: BLUE NORTH
2. Any Certification: ABS LOADLINE
3. Size of Vessel (LxWxH): REG. 155 X 38 X 13.5
4. Sludge Hauling Capacity (Gallons): 230,000 GAL
5. Maximum Rated Speed (Knots): 12 KN 10 KN OPERATING SPEED
6. Maximum Sludge Pumping Capacity: 1400 GL/MIN
7. Location of Discharge Port (below water):
PORT: STARBOARD BELOW ENGINE EXHAUST TRUNKS
8. Navigational Gear (What & Mfg):
FURUND G.P.S.

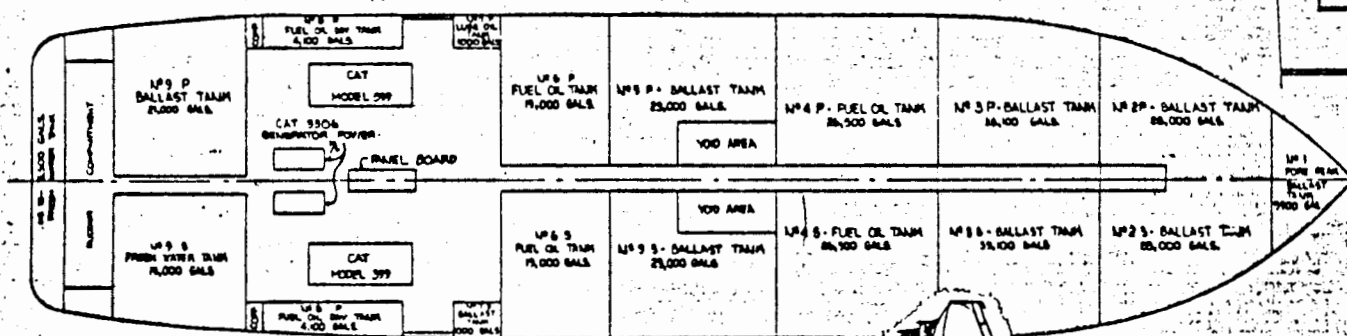
I did receive the drawings and one photograph. Thanks.

JLC:ms

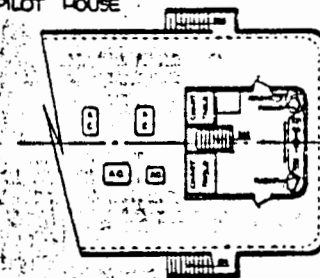


MAIN DECK

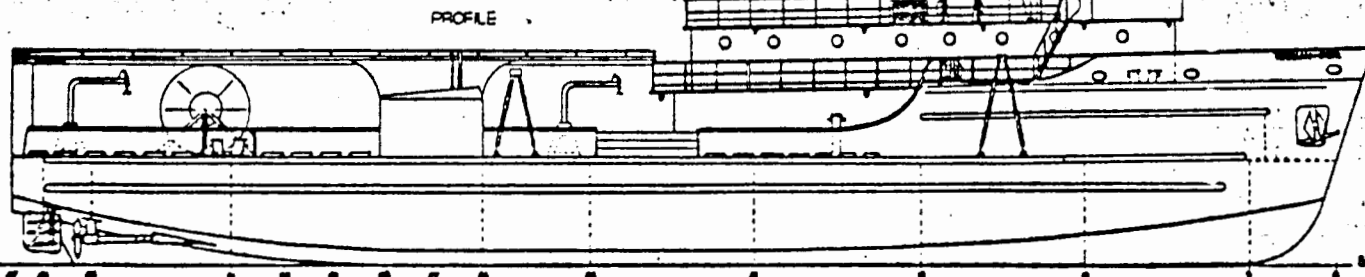
HOLD ARRANGEMENT



PILOT HOUSE



PROFILE



BASE LINE

SAMOA PACKING COMPANY
6-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL
WASTE STREAM: PRECOOKER WATER

PARAMETER	UNITS	07/92	08/92	09/92	10/92	11/92	12/92	90-02 PERMIT LIMIT	*****SUMMARY: 01/92 THRU 06/92*****				
									AVE.	RANGE	S.D.	C.V.	
TOT. SOLIDS	mg/l	32,700	67,000	81,000	103,000	97,000	63,300	257,290	74,000	32,700 -	103,000	25,644	35%
BOD 5	mg/l	19,900	42,000	58,200	47,000	30,900	30,200	60,220	38,033	19,900 -	58,200	13,740	38%
TOT. PHOSPHORUS	mg/l	950	1,000	900	1,400	1,000	1,100	2,170	1,058	900 -	1,400	180	17%
TOT. NITROGEN	mg/l	5,250	7,980	9,660	10,920	13,300	12,040	20,820	9,858	5,250 -	13,300	2,917	30%
OIL & GREASE	mg/l	6,504	26,400	2,640	6,504	3,490	2,808	207,830	8,058	2,640 -	26,400	9,155	114%
TVS	mg/l	21,300	54,000	47,000	73,000	65,600	46,100	358,180	51,167	21,300 -	73,000	18,045	35%
DENSITY	g/ml	0.97	1.00	0.99	1.02	1.00	1.00	.96 - 1.04	1.00	0.97 -	1.02	0.02	2%
AMMONIA	mg/l	98	415	293	208	325	220	2,740	260	98 -	415	109	42%
pH	Std.	5.9	5.4	5.9	6.1	6.2	6.0	5.5 - 7.0	5.9	5.4 -	6.2	0.3	5%
ALUMINUM	ug/l	<.4	<.4	<.4	<.4	0.4	<.4	---	0	0 -	0	0	245%
CHROMIUM	ug/l	<.1	<.1	<.1	<.1	<.1	<.1	---	0	0 -	0	0	ERR
NICKEL	ug/l	0.3	<.1	0.1	<.1	<.1	<.1	---	0	0 -	0	0	183%
COPPER	ug/l	0.2	0.2	0.3	0.4	0.3	0.2	---	0	0 -	0	0	24%
LEAD	ug/l	<.1	<.1	<.1	<.1	<.1	<.1	---	0	0 -	0	0	ERR
CADMIUM	ug/l	0.1	0.2	0.2	0.3	0.4	0.2	---	0	0 -	0	0	48%
MERCURY	ug/l	0.002	0.003	0.003	0.015	0.004	0.004	---	0.0	0.0 -	0.0	0.0	94%
PETROLEUM HYDROCARBONS	mg/l	64	244	169	175	141	210	---	167	64 -	244	62	37%

n.a. - Not Available

file:odcooker

SAMOA PACKING COMPANY
6-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL
WASTE STREAM: PRESS WATER

PARAMETER	UNITS	07/92	08/92	09/92	10/92	11/92	12/92	90-02 PERMIT LIMIT	***** SUMMARY: 01/92 THRU 06/92 *****				
									AVE.	RANGE	S.D.	C.V.	
TOT. SOLIDS	mg/l	234,000	166,000	163,000	138,000	229,000	189,000	463,780	188,500	138,000 - 234,000	38,454	21%	
BOD 5	mg/l	88,500	340,000	125,000	98,100	179,000	77,500	524,270	151,350	77,500 - 340,000	99,285	66%	
TOT. PHOSPHORUS	mg/l	1,400	1,500	1,300	1,300	1,200	1,500	6,880	1,367	1,200 - 1,500	121	9%	
TOT. NITROGEN	mg/l	18,200	14,000	17,920	12,600	17,080	15,120	32,020	15,820	12,600 - 18,200	2,273	14%	
OIL & GREASE	mg/l	75,430	242,000	68,600	75,430	39,640	32,350	386,480	88,908	32,350 - 242,000	77,252	87%	
TVS	mg/l	199,000	95,000	131,000	106,000	201,000	171,000	384,580	150,500	95,000 - 201,000	46,397	31%	
DENSITY	g/ml	1.00	0.99	0.98	1.00	0.99	1.02	.98 - 1.07	1.00	0.98 - 1.02	0.01	1%	
AMMONIA	mg/l	305	580	510	815	239	550	4,940	500	239 - 815	207	41%	
pH	Std.	5.9	5.5	6.0	6.2	6.1	6.2	5.5 - 7.0	6.0	5.5 - 6.2	0.3	4%	
ALUMINUM	ug/l	<.4	<.4	0.4	<.4	<.4	<.4	---	0	0 - 0	0	245%	
CHROMIUM	ug/l	<.1	<.1	0.2	<.1	<.1	<.1	---	0	0 - 0	0	245%	
NICKEL	ug/l	0.1	<.1	<.1	<.1	<.1	<.1	---	0	0 - 0	0	245%	
COPPER	ug/l	0.8	0.5	0.4	0.4	0.3	0.4	---	0	0 - 1	0	38%	
LEAD	ug/l	<.1	<.1	<.1	<.1	0.1	<.1	---	0	0 - 0	0	245%	
CADMIUM	ug/l	0.2	0.2	0.1	0.1	0.2	0.3	---	0	0 - 0	0	48%	
MERCURY	ug/l	0.004	0.004	0.005	0.009	0.005	0.009	---	0.0	0.0 - 0.0	0.0	39%	
PETROLEUM HYDROCARBONS	mg/l	783	7,770	2,460	1,590	2,420	3,460	---	3,077	783 - 7,770	2,472	80%	

n.a. - Not Available

file:odpress

SAMOA PACKING COMPANY
8-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL
WASTE STREAM: DAF SLUDGE

PARAMETER	UNITS	07/92	08/92	09/92	10/92	11/92	12/92	90-02 PERMIT LIMIT	***** SUMMARY: 01/92 THRU 06/92 *****				
									AVE.	RANGE	S.D.	C.V.	
TOT. SOLIDS	mg/l	114,000	130,000	52,000	159,000	151,000	494,000	492,000	183,333	52,000 - 494,000	156,677	86%	
BOD 5	mg/l	136,000	260,000	42,300	182,800	151,000	38,700	443,840	135,133	38,700 - 260,000	84,693	63%	
TOT. PHOSPHORUS	mg/l	1,700	3,300	1,800	1,000	1,500	1,200	3,910	1,750	1,000 - 3,300	817	47%	
TOT. NITROGEN	mg/l	11,900	19,600	12,880	6,720	15,120	10,640	14,950	12,810	6,720 - 19,600	4,338	34%	
OIL & GREASE	mg/l	173,000	3,700	62,600	173,600	151,720	99,320	282,750	110,657	3,700 - 173,600	68,429	62%	
TVS	mg/l	100,000	95,000	36,000	148,000	137,000	44,500	308,700	83,417	36,000 - 148,000	46,074	49%	
DENSITY	g/ml	0.83	0.98	0.93	0.92	0.89	0.97	.85 - 1.08	0.92	0.83 - 0.98	0.08	6%	
AMMONIA	mg/l	670	1,810	708	640	3,300	730	2,570	1,309	640 - 3,300	1,074	82%	
pH	Std.	5.6	5.8	6.3	5.9	6.3	6.2	5.5 - 7.0	6.0	5.6 - 6.3	0.3	4%	
ALUMINUM	ug/l	60	41	74	117	109	4	---	68	4 - 117	42	63%	
CHROMIUM	ug/l	3.4	2.3	2.5	2.4	2.9	0.3	---	2	0 - 3	1	46%	
NICKEL	ug/l	1.2	1.2	1.0	1.3	1.7	0.2	---	1	0 - 2	1	47%	
COPPER	ug/l	4.5	2.9	3.1	5.1	7.8	0.6	---	4	1 - 8	2	61%	
LEAD	ug/l	1.9	1.3	1.7	1.3	3.5	0.2	---	2	0 - 4	1	65%	
CADMIUM	ug/l	0.5	0.5	0.4	1.3	1.4	0.2	---	1	0 - 1	0	67%	
MERCURY	ug/l	0.037	0.021	0.042	0.006	0.021	0.011	---	0.0	0.0 - 0.0	0.0	61%	
PETROLEUM HYDROCARBONS	mg/l	18,800	8,100	21,800	25,800	161,800	2,350	---	39,775	2,350 - 161,800	60,419	152%	

n.a. - Not Available

file:odsludge

SAMOA PACKING COMPANY - 6-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL

PRESS WATER TO DAF (MAX. PERMITTED 40,000 GALS/DAY)

DAY	07/92		08/92		09/92		10/92		11/92		12/92	
	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS
1	0	0.0	12,300	52.8	27,000	115.8	4,500	19.3	200	0.9	16,000	68.6
2	0	0.0	14,900	63.9	36,300	155.7	2,700	11.6	1,000	4.3	9,000	38.6
3	0	0.0	24,900	106.8	34,800	149.3	0	0.0	2,500	10.7	10,000	42.9
4	0	0.0	12,500	53.6	11,300	48.5	0	0.0	0	0.0	20,000	85.8
5	0	0.0	6,800	29.2	12,800	54.9	2,700	11.6	4,000	17.2	0	0.0
6	0	0.0	7,500	32.2	0	0.0	15,600	66.9	3,100	13.3	0	0.0
7	0	0.0	7,100	30.5	0	0.0	12,400	53.2	57,000	244.5	20,000	85.8
8	0	0.0	8,000	34.3	0	0.0	2,200	9.4	0	0.0	14,000	60.1
9	0	0.0	0	0.0	5,100	21.9	900	3.9	28,000	120.1	21,000	90.1
10	0	0.0	1,700	7.3	27,000	115.8	500	2.1	43,000	184.5	19,000	81.5
11	0	0.0	12,900	55.3	7,000	30.0	0	0.0	44,000	188.8	18,000	77.2
12	0	0.0	5,300	22.7	7,200	30.9	0	0.0	43,000	184.5	0	0.0
13	5,000	21.5	8,700	37.3	700	3.0	4,900	21.0	64,000	274.6	0	0.0
14	6,300	27.0	3,900	16.7	22,000	94.4	7,500	32.2	0	0.0	20,000	85.8
15	10,000	42.9	22,700	97.4	2,100	9.0	6,100	26.2	0	0.0	20,000	85.8
16	9,300	39.9	0	0.0	3,000	12.9	3,900	16.7	52,000	223.1	21,000	90.1
17	5,800	24.9	6,100	26.2	4,700	20.2	900	3.9	61,000	261.7	18,000	77.2
18	2,600	11.2	2,700	11.6	200	0.9	400	1.7	32,000	137.3	25,000	107.3
19	0	0.0	6,000	25.7	200	0.9	1,400	6.0	1,800	7.7	0	0.0
20	4,400	18.9	6,100	26.2	0	0.0	4,300	18.4	14,000	60.1	0	0.0
21	9,200	39.5	20,900	89.7	0	0.0	13,000	55.8	0	0.0	20,000	85.8
22	14,600	62.6	25,000	107.3	0	0.0	2,400	10.3	4,000	17.2	19,000	81.5
23	10,700	45.9	0	0.0	0	0.0	4,100	17.6	26,000	111.5	21,000	90.1
24	7,600	32.6	6,500	27.9	0	0.0	1,000	4.3	20,000	85.8	0	0.0
25	5,900	25.3	22,000	94.4	0	0.0	0	0.0	0	0.0	0	0.0
26	0	0.0	6,600	28.3	0	0.0	5,300	22.7	0	0.0	0	0.0
27	4,500	19.3	0	0.0	2,500	10.7	5,900	25.3	0	0.0	0	0.0
28	9,900	42.5	5,800	24.9	23,000	98.7	3,000	12.9	0	0.0	20,000	85.8
29	7,000	30.0	20,000	85.8	21,700	93.1	4,000	17.2	0	0.0	25,000	107.3
30	7,400	31.7	18,900	81.1	5,000	21.5	1,400	6.0	0	0.0	0	0.0
31	7,200	30.9	1,100	4.7	0	0.0	1,200	5.1	0	0.0	0	0.0
AVERAGE	4,110	17.6	9,577	41.1	8,181	35.1	3,619	15.5	16,148	69.3	11,484	49.3

6-MONTH AVE. GALS 6,844 TONS 29.4
RANGE 0 TO 25,000 0.0 TO 107.3

file:odvolprs

SAMOA PACKING COMPANY - 6-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL

PRECOOKER WATER TO DAF (MAX. PERMITTED 100,000 GALS/DAY)

DAY	07/92		08/92		09/92		10/92		11/92		12/92	
	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS	GALS	TONS
1	0	0.0	80,500	335.3	44900	187.0	86,500	360.3	33,700	140.4	40,000	166.6
2	0	0.0	66,900	278.6	45800	190.8	83,200	346.5	89,300	371.9	38,000	158.3
3	0	0.0	40,000	166.6	50000	208.2	0	0.0	63,800	265.7	41,000	170.8
4	0	0.0	90,100	375.3	65000	270.7	0	0.0	67,500	281.1	27,000	112.5
5	0	0.0	80,000	333.2	73500	306.1	70,600	294.0	66,400	276.6	0	0.0
6	0	0.0	16,000	66.6	0	0.0	71,500	297.8	32,900	137.0	23,000	95.8
7	0	0.0	71,000	295.7	22000	91.6	73,300	305.3	0	0.0	42,000	174.9
8	0	0.0	78,300	326.1	42000	174.9	70,600	294.0	33,900	141.2	35,000	145.8
9	0	0.0	72,300	301.1	40000	166.6	69,500	289.5	67,300	280.3	40,000	166.6
10	0	0.0	92,800	386.5	56000	233.2	46,000	191.6	67,500	281.1	40,000	166.6
11	0	0.0	28,000	116.6	60000	249.9	0	0.0	67,500	281.1	44,000	183.3
12	0	0.0	39,000	162.4	60000	249.9	0	0.0	66,700	277.8	0	0.0
13	50,000	208.2	68,800	286.5	56000	233.2	65,600	273.2	32,900	137.0	10,000	41.6
14	44,000	183.3	77,400	322.4	60000	249.9	72,100	300.3	0	0.0	30,000	124.9
15	74,700	311.1	59,900	249.5	65000	270.7	79,300	330.3	0	0.0	40,000	166.6
16	77,000	320.7	0	0.0	60000	249.9	67,000	279.1	65,600	273.2	45,000	187.4
17	78,000	324.9	74,000	308.2	54000	224.9	70,500	293.6	67,700	282.0	35,000	145.8
18	80,000	333.2	60,400	251.6	56000	233.2	72,300	301.1	69,200	288.2	30,000	124.9
19	3,000	12.5	71,900	299.5	70000	291.5	65,000	270.7	69,300	288.6	0	0.0
20	61,400	255.7	82,000	341.5	0	0.0	69,800	290.7	33,700	140.4	20,000	83.3
21	68,000	283.2	66,000	274.9	0	0.0	72,100	300.3	0	0.0	30,000	124.9
22	64,000	266.6	73,200	304.9	0	0.0	80,600	335.7	34,800	144.9	50,000	208.2
23	74,000	308.2	71,900	299.5	0	0.0	73,200	304.9	69,500	289.5	40,000	166.6
24	82,000	341.5	77,000	320.7	0	0.0	65,200	271.6	69,700	290.3	0	0.0
25	54,200	225.7	14,000	58.3	0	0.0	0	0.0	35,200	146.6	0	0.0
26	2,000	8.3	75,000	312.4	0	0.0	68,300	284.5	0	0.0	0	0.0
27	79,000	329.0	58,000	241.6	42000	174.9	80,900	336.9	0	0.0	0	0.0
28	71,700	298.6	41,000	170.8	66000	274.9	75,700	315.3	0	0.0	30,000	124.9
29	73,000	304.0	59,700	248.6	76000	316.5	83,000	345.7	35,000	145.8	41,000	170.8
30	73,000	304.0	64,000	266.6	72000	299.9	79,400	330.7	33,100	137.9	0	0.0
31	76,000	316.5	52,000	216.6	0	0.0	63,500	264.5	0	0.0	0	0.0
AVERAGE: 38,226 159.2 61,326 255.4 39,710 165.4 60,474 251.9 41,039 170.9 24,871 103.6												

6-MONTH AVE. GALS 44,274 TONS 184.4
 RANGE 0 TO 92,800 0.0 TO 386.5
 file:odvolckr

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SAMOA PACKING COMPANY - 6-MONTH OCEAN DUMPING REPORT - PERMIT OD 90-02 SPECIAL

TOTAL VOLUMES REMOVED: DAF SLUDGE, PRESS WATER, & PRECOOKER WATER

(MAX. PERMITTED, ALL WASTE STREAMS, 200,000 GALS/DAY)

DAY	07/92 GALS	TONS	08/92 GALS	TONS	09/92 GALS	TONS	10/92 GALS	TONS	11/92 GALS	TONS	12/92 GALS	TONS
1	0	0.0	88,903	370.7	66,306	276.5	90,718	378.3	78,665	328.0	87,724	365.8
2	0	0.0	89,165	371.8	56,264	234.6	90,919	379.1	88,665	369.7	86,650	361.3
3	0	0.0	89,921	375.0	73,043	304.6	0	0.0	87,622	365.4	87,321	364.1
4	0	0.0	89,675	374.0	86,691	361.5	0	0.0	89,676	374.0	92,285	384.8
5	0	0.0	88,889	370.7	91,066	379.8	141,108	588.4	46,380	193.4	88,289	368.2
6	0	0.0	90,719	378.3	92,296	384.9	90,718	378.3	53,983	225.1	0	0.0
7	0	0.0	63,642	265.4	89,165	371.8	89,921	375.0	123,057	513.2	62,048	258.7
8	0	0.0	89,419	372.9	87,604	365.3	85,303	355.7	0	0.0	68,272	284.7
9	0	0.0	90,718	378.3	90,439	377.1	87,048	363.0	63,234	263.7	87,756	366.0
10	87,503	364.9	55,094	229.7	90,718	378.3	91,507	381.6	90,768	378.5	67,206	280.3
11	0	0.0	22,088	92.1	90,177	376.1	84,804	353.6	82,224	342.9	87,127	363.3
12	0	0.0	68,460	285.5	84,869	353.9	63,642	265.4	89,800	374.5	58,423	243.6
13	0	0.0	89,917	375.0	86,691	361.5	90,194	376.1	90,720	378.3	0	0.0
14	87,685	365.7	90,830	378.8	90,439	377.1	90,831	378.8	78,644	328.0	86,640	361.3
15	89,730	374.2	60,643	252.9	90,200	376.1	89,442	373.0	0	0.0	87,874	366.4
16	91,244	380.5	90,439	377.1	90,439	377.1	88,900	370.7	86,692	361.5	70,915	295.7
17	89,676	374.0	78,620	327.9	90,982	379.4	87,055	363.0	87,055	363.0	49,268	205.5
18	90,441	377.2	89,399	372.8	90,982	379.4	0	0.0	0	0.0	43,281	180.5
19	0	0.0	85,740	357.5	0	0.0	86,249	359.7	86,860	362.2	0	0.0
20	90,195	376.1	89,917	375.0	0	0.0	152,220	634.8	98,598	411.2	0	0.0
21	86,692	361.5	88,657	369.7	0	0.0	121,053	504.8	33,565	140.0	128,423	535.5
22	87,874	366.4	90,195	376.1	0	0.0	144,906	604.3	73,843	307.9	41,736	174.0
23	89,400	372.8	90,195	376.1	0	0.0	85,146	355.1	0	0.0	45,996	191.8
24	89,932	375.0	90,965	379.3	0	0.0	75,412	314.5	90,322	376.7	0	0.0
25	89,544	373.4	56,264	234.6	0	0.0	0	0.0	89,119	371.6	0	0.0
26	0	0.0	90,965	379.3	0	0.0	75,248	313.8	90,439	377.1	0	0.0
27	89,676	374.0	54,538	227.4	0	0.0	87,338	364.2	0	0.0	0	0.0
28	89,800	374.5	89,917	375.0	91,170	380.2	88,232	367.9	90,580	377.7	60,540	252.5
29	84,393	351.9	89,411	372.9	86,030	358.8	88,288	368.2	0	0.0	82,851	345.5
30	90,195	376.1	56,264	234.6	90,718	378.3	87,938	366.7	0	0.0	0	0.0
31	90,195	376.1	66,306	276.5	0	0.0	88,889	370.7	74,204	309.4	0	0.0
TOTAL	1,514,175		2,465,875		1,806,289		2,543,029		1,964,715		1,570,625	
AVERAGE	48,844	203.7	79,544	331.7	58,267	243.0	82,033	342.1	63,378	264.3	50,665	211.3

6-MONTH AVE. GALS 63,789 TONS 266.0
RANGE 0 TO 152,220 0.0 TO 634.8

file:odvolslu

3

1

[illegible]



VAN CAMP
SEAFOOD
COMPANY, INC.

Rec'd 1/29/93
Copy to Pat Cotter

January 26, 1993

Office of Pacific Island and
Native American Programs (E-4)
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

RE: OCEAN DUMPING PERMIT OD90-02 SPECIAL

Dear Sirs:

Pursuant to the requirements of the above referenced permit, we are herewith submitting the six-month ocean dumping report for the period of July 1992 through December 1992 for VCS Samoa Packing Company, Inc. Enclosed are the following:

- Volumes of DAF Sludge, Presswater, and Precooker Water Removed
- Results of Monthly Waste Stream Analysis
- Letter to ASEPA Reporting 4 Exceedances During the 6-Month Period
- Amounts of Polymer and Alum Added
- Monthly Site Monitoring Reports
- Copies of Vessel Log Books

Due to space constraints on the analysis sheets, petroleum hydrocarbons are reported in μ /l rather than mg/l.

Please advise if additional information is required.

Sincerely,

Daniel P. Sullivan
Executive Vice President
Production Operations

cc (3) Complete Reports: Director
American Samoa EPA
Office of the Governor
Pago Pago, American Samoa 96799

cc (1) Complete Report: General Manager
VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

cc (2) Vessel Logs Only: Commanding Officer
U.S. Coast Guard Liaison Office
P.O. Box 249
Pago Pago, American Samoa 96799

cc (1) Except Vessel Logs: Project Leader
Office of Environmental Services
U.S. Fish and Wildlife Service
300 Ala Moana Boulevard
P.O. Box 50167
Honolulu, Hawaii 96850

Western Pacific Program Officer
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Executive Director
Western Pacific Regional Fishery
Management Council
1164 Bishop Street, Suite 1405
Honolulu, Hawaii 96813

DPS:ms
Enclosures
ODP6M092.JC



VCS SAMOA
PACKING
COMPANY

1/26/93
Post-it™ brand fax transmittal memo 7671 # of pages = 1

To	Jim Cox	From	
Co.		Co.	
Dept.	for your review	Phone	
Fax #		Fax #	Pegada

January 25, 1993

Mr. Tony Tausaga
American Samoa Environmental Protection Agency
Office of the Governor
American Samoa Government
Pago Pago, Am. Samoa 96799

Re: Marine Protection, Research and Sanctuaries Act Ocean Dumping
Permit. Permit #OD90-02 Special.

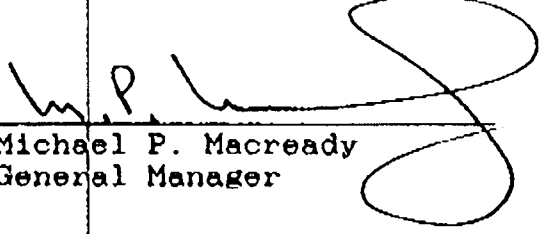
Dear Mr. Tausaga:

Further to John Perry's phone call to Ms. Sheila Weigman, VCS Samoa Packing Company exceeded the maximum permitted concentration of nitrogen, ammonia, total solids on the following dates.

<u>DATE</u>	<u>TKN</u>	<u>AMMONIA</u>	<u>TOTAL SOLIDS</u>
August	19,600		
November	15,120	3,300	
December			494,000

Sincerely Yours.

VCS SAMOA PACKING COMPANY


Michael P. Macready
General Manager

cc: R. Pagan
File

*Copy to Norm, Mike Lee,
Pat Corbett*



VCS SAMOA
PACKING
COMPANY

November 30, 1990

Norman L. Lovelace
Chief, Office of Pacific Island
and Native American Programs
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Dear Mr. Lovelace:

This is in follow-up of our meetings in American Samoa on November 14 and 15, 1990 to request in writing authorization from the United States Environmental Protection Agency to dispose unprocessed thaw water generated by VCS Samoa Packing Company's fish canning production at sea under and at the designated site in Ocean Dumping Permit, No. OD 90-02 Special, issued to the Company for the period beginning July 31, 1990 and ending July 30, 1993.

As we discussed at our recent meetings, our objective is solely to utilize any excess in our authorized total maximum daily volume of 200,000 gallons of dissolved air flotation sludge (60,000 gallons), precooker water (100,000 gallons), and press water (40,000 gallons) for ocean disposal of portions of thaw water as an additional segregated fish processing waste stream. Samoa Packing will not in any event exceed 200,000 gallons per day when adding this fourth segregated waste stream.

As we also discussed, we believe the addition of portions of thaw water will achieve beneficial effects for the overall waste water disposal program. It will serve to further reduce the quantities and improve the quality of waste water disposed within Pago Pago Harbor. At the same time, the segregated waste water disposed at the ocean dumping site will be further diluted.

The United States Environmental Protection Agency's authorization to permit Samoa Packing to add thaw water to the ocean dumping program is seen as a positive step in the underlying American Samoa Water Quality Standards compliance program and will be greatly appreciated.

Sincerely,

VCS SAMOA PACKING COMPANY

LYLE L. RICHMOND

Acting Administration Manager

P.O. Box 957

Pago Pago, American Samoa 96199

(684) 644-5272

LLR\pl

LILLICK & MCHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
ATTORNEYS AT LAW
101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000

IRA S. LILLICK (1875-1967)
CABLES "LILLICKMCHOSE"
INTERNATIONAL TELEX-559755
TELECOPIER (619) 236-1995

725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 468-7100

DIRECT DIAL NO.

(619) 544-3174

August 31, 1990

Mr. Patrick Cotter
USEPA Region IX
Code W-7-1
1235 Mission Street
San Francisco, CA 94103

Re: Special Ocean Dumping Permit 90-02
Certification of MV ASTRO in American Samoa
Our File No. VAN09-017

Dear Mr. Cotter:

As was requested by Mr. Seraydarian in his letter dated August 1, 1990, Van Camp Seafood Company ("VCS") hereby advises that the U. S. Coast Guard has granted a temporary certificate allowing M.V. ASTRO to operate in United States territorial waters until October 31, 1990. The vessel will be dry docked and inspected prior to the expiration date of the temporary certificate. After this inspection, the Coast Guard will issue a long-term certificate if the inspection is satisfactory.

We greatly appreciate the EPA's cooperation in granting permission to use the M.V. MATAORA in the event of emergency. From our previous telephone conversations, we understand that the EPA would accommodate similar requests should an unforeseen emergency arise in the future. The EPA has been very responsive to the emergency requests of VCS and Star-Kist in the past. When the previous vessel sunk at the dock, prompt approval for a new vessel was granted. However, in the event there should be any change in personnel at the EPA during the coming years, we would like to memorialize the understanding that a temporary change in vessel designation can be done by written notice if an emergency should arise.

As noted in my letter of July 3, 1990, the thirty-day notice requirement for a change in the designated waste transporter should not apply to temporary vessel changes made necessary by an emergency. The modeling report prepared by Dr. Soule and her associates indicated that a change in the vessel designation will

Mr. Patrick Cotter
August 31, 1990
Page 2

not significantly affect the assumptions underlying the ocean dumping permit as long as the proper disposal rate is maintained. Accordingly, we are writing to request that any future emergencies could be handled by a 24-hour written notice of a temporary change in vessel designation. Such notice could be sent via facsimile to you, Mr. Seraydarian, and any other individuals at the EPA that need to be notified.

While it is not presently possible to foresee exactly what the circumstances of such an emergency might be, it is possible that the M.V. ASTRO could sustain mechanical failure which would prevent it from proceeding under its own power to the designated dump site. In that event, it might be possible for a Port Administration tugboat to be used as a towing vessel to tow the M.V. ASTRO to the site and through the disposal operation. This could be done without any change in the disposal rate or any of the site conditions, including the path taken by the vessel inside the disposal site. Another alternative would be to utilize a different vessel on a temporary basis.

We appreciate your continuing courtesy and cooperation in establishing an effective ocean disposal program for American Samoa. Please let us know if the procedures outlined in this letter are acceptable in the event an emergency should arise.

If you have any questions or comments regarding the foregoing, please feel free to call.

Very truly yours,

LILLICK & McHOSE



Thomas P. Redick

TPR:rm

cc: J. McCafferty
J. Cox
G. Stirling
J. Ciko, Jr.
N. Wei
M. Callaghan
D. Silk
N. Lovelace
A. Nutt



VCS SAMOA
PACKING
COMPANY

August 15, 1990

Office of Pacific Island and
Native American Programs (E-4)
U.S. Environmental Protection Agency, Region 9
1235 Mission Street
San Francisco, CA 94103

Dear Sirs:

This letter provides information requested in the Marine Protection, Research and Sanctuaries Act Ocean Dumping Permit, Number OD 90-02 Special, for VCS Samoa Packing Company, Inc. In particular, responses in reference to parts 3.2.1. and 5.4.2. of the permit. Two copies of this letter are provided to you, per instructions in the permit.

Please be advised there have been no changes in either area since the previous permit. Our contract laboratory (per part 3.2.1.) remains as AECOS Laboratories in Hawaii. The Principal Investigator for field monitoring operations at the dump site (per part 5.4.2.) still will be George Scanlan from VCS Samoa Packing Company, Inc.

Should additional information be needed, do not hesitate to call or write.

Sincerely,

Lisa Brown
Quality Control/Sanitation Manager
VCS Samoa Packing Company

c. Madelyn Parks, VCS - St. Louis



August 7, 1990

VCS SAMOA
PACKING
COMPANY

Donald H. Silk
Pago Marine, Inc.
P.O. Box 4058
Pago Pago, American Samoa 96799

Dear Mr. Silk:

Enclosed for Pago Marine, Inc.'s information, and regular reference and use, is a copy of the Ocean Dumping Permit, No. OD 90-02 issued to VCS Samoa Packing Company, for the three-year period beginning July 31, 1990 and ending July 30, 1993, by the U.S. Environmental Protection Agency under the federal Marine Protection, Research and Sanctuaries Act.

This Permit allows and governs in great detail the ocean disposal of segregated high strength wastes generated by Samoa Packing's production as a key part of the program under the agreement between the American Samoa Government and Samoa Packing which is designed to bring the effluent discharge by the Company into Pago Pago Harbor into compliance with the American Samoa Water Quality Standards no later than March 7, 1992.

Samoa Packing is contracting with Pago Marine in full expectation that Pago Marine will comply with all requirements of the Ocean Dumping Permit imposed on Pago Marine and that the ocean disposal program will operate successfully. Thus, it cannot be over emphasized how important it is that Pago Marine and particularly the Master and crew of the MV Astro, yourself and Doug Harrington have thorough knowledge of the contents of the Permit and be dedicated to compliance with its very specific and stringent requirements.

For this purpose, attention is directed in particular to the following provisions of the Ocean Dumping Permit:

1. General Condition 1.3 describing violations of Section 105 of the Marine Protection, Research and Sanctuaries Act (Permit page 2).
2. General Condition 1.4 describing materials that cannot be dumped under any circumstances (Permit pages 2-3).

August 7, 1990

3. Special conditions pertaining to the disposal site and waste characterization (Permit pages 5-7), especially:

a. Special Condition 2.2 identifying the location of the ocean disposal site (Permit page 5); and

b. Special Condition 2.3.1 describing the types and quantities of fish processing wastes permitted for disposal each day (Permit pages 5-6).

4. Special Conditions pertaining to vessel operations, (Permit pages 11-15), especially:

a. Special Condition 4.1 requiring conspicuous posting of the Permit aboard the MV Astro (Permit page 12);

b. Special Condition 4.2 regarding vessel identification markings (Permit page 12);

c. Special condition 4.3 prescribing procedures for determining the disposal location within the dump site for each trip (Permit pages 12-13);

d. Special Condition 4.4 limiting the disposal rate and vessel speed (Permit page 13);

e. Special Condition 4.5 requiring an on board electronic positioning system, approved in advance by U.S. Environmental Protection Agency, Region 9 and U.S. Coast Guard Liaison Office in American Samoa, no later than August 15, 1990 (Permit pages 13-14);

f. Special Condition 4.6 restricting dumping operations to daylight hours (Permit page 14); and

g. Special Condition 4.7 detailing the contents of the logbook to be maintained for each disposal trip and the reporting of this information (Permit pages 14-15).

Pago Marine, the Astro's Master and crew, Mr. Harrington and yourself should also be generally aware of the contents of all other General Conditions, Special Conditions pertaining to the disposal site and waste characterization, analysis of waste material and dump site monitoring, and Permit Appendix "A".

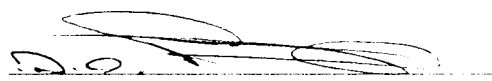
Donald H. Silk
Page 3

August 7, 1990

Compliance with the new Ocean Dumping Permit is a matter of great significance not only to Samoa Packing and Pago Marine, but also to the American Samoa Government, U.S. Environmental Protection Agency, U.S. Coast Guard and the American Samoa community. The Company is prepared to assist Pago Marine in any way it can to achieve this compliance. Please do not hesitate to ask for this assistance.

Sincerely,

VCS SAMOA PACKING COMPANY



BERND PEEMOLLER
Acting General Manager

BP\LLR:pl

cc: Attorney General
Chief of Staff
Director, ASEPA
Director, Water Management Division
USEPA, Region 9
U.S. Coast Guard Liaison Officer
General Manager, Starkist Samoa
Vice President, Operations, Van Camp Seafood

LILLICK & MCHOSE

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100IRA S. LILLICK (1875-1997)
CABLES "LILLICKMCHOSE"
INTERNATIONAL TELEX-559755
TELECOPIER (619) 236-1995

DIRECT DIAL NO.

July 25, 1990

FACSIMILE TRANSMITTAL

TO: Patrick Gotter
FROM: Thomas Redick USER NUMBER 8156
FAX NUMBER: (415) 556-5966
PHONE NUMBER: (415) 556-5865
FILE NUMBER/CLIENT MATTER: VAN09-017
NUMBER OF PAGES [INCLUDING COVER SHEET] 2
Our facsimile number is (619) 236-1995

IF YOU HAVE NOT PROPERLY RECEIVED THIS FACSIMILE
PLEASE CALL US AT (619) 234-5000.

THANK YOU.

SPECIAL INSTRUCTIONS: _____

Operator: _____

Time sent: _____

LILLICK & McHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-6000IRA S. LILLICK (1975-1987)
CABLES "LILLICKMCHOSE"
INTERNATIONAL TELEX: 559755
TELECOPIER (619) 234-1995725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

July 24, 1990

VIA FACSIMILEMr. Patrick Cotter
USEPA Region IX
Code W-7-1
1235 Mission Street
San Francisco, CA 94103Re: Special Ocean Dumping Permit 90-02
VCS Samoa Packing Company, Inc.
Our File No. VAN09-017

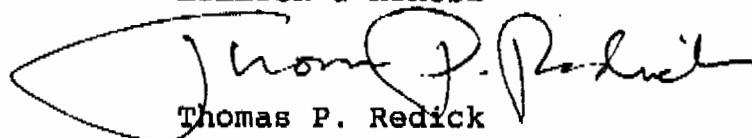
Dear Mr. Cotter:

We have not heard a formal response to my letters of July 3 and July 19, 1990 outlining our test run plans. Since the ASTRO has arrived, in uncertain condition, it is imperative that test runs be undertaken as soon as possible. Since we have provided the requisite notice to the EPA of a change in vessel under the research permit, we will be proceeding with test runs as we deem necessary to meet the deadlines for barging.

Thank you for your assistance.

Very truly yours,

LILLICK & McHOSE


Thomas P. Redick

TPR:rm

cc: James McCafferty
James Cox
Gordon Stirling
John Ciko
Norman Wei
Maurice Callaghan
Ann Nutt

[151:LTR0253G90]

FROM:VAN CAMP SEAFOOD

TO:

415 556 5301

JUL 30, 1990

4:08PM

P.01



VAN CAMP
SEAFOOD
COMPANY, INC.

July 30, 1990

Mr. Norm Lovelace
U.S.Environmental Protection Agency
Region IX
1235 Mission Street
San Francisco, California 94103

Dear Norm:

This letter is a request for Samoa Packing Company to use the M.V.Mataora under the new Ocean Dumping Permit on or after Aug. 1, 1990 until the M.V. Astro has been approved for use in U.S. Territorial waters as the canneries sludge hauling vessel.

Thak you for your continued assistance in this matter.

Very Truly Yours,

James L. Cox, Dir. of Engineering
Van Camp Seafood Company, Inc.

LILICK & MCHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
ATTORNEYS AT LAW
101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000

IRA S. LILICK (1975-1967)
CABLES "LILICKMCHOSE"
INTERNATIONAL TELEX-559755
TELECOPIER (619) 236-1995

725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

July 19, 1990

VIA FACSIMILE

Mr. Norman Lovelace
Office of Pacific Islands
and Native American Programs
U.S. Environmental Protection Agency
Region IX
1235 Mission Street
San Francisco, California 94103

Re: Change of Vessel Designation to
Allow Test Runs
Our File No. VAN09-017

Dear Mr. Lovelace:

As you may already be aware, we anticipate that the new ocean disposal vessel M.V. ASTRO will arrive in Pago Pago within the next few days. On behalf of VCS Samoa Packing Company and StarKist-Samoa, we request that the vessel designation under the existing research permit be changed to allow test runs by the M.V. ASTRO prior to July 31, 1990. This would not preclude the continued use of the MATAORA if circumstances require it.

Our tentative plan at this point is to make several test runs involving a trip to the new dump site carrying a full load (without dumping at the new site) to test time and maneuverability. The M.V. ASTRO would return to the old site to discharge the waste and test out its pumps. These trial runs are essential to ensure that the high-strength waste segregation and disposal process proceeds smoothly after July 31, 1990 under the new ocean dumping permits.

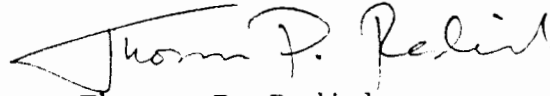
This letter constitutes the requisite notice under the prior understanding with Patrick Cotter set forth in my letter dated July 3, 1990, a copy of which is enclosed for your reference.

Mr. Norman Lovelace
July 19, 1990
Page 2

Thank you for your continuing assistance on this matter.

Very truly yours,

LILLICK & McHOSE


Thomas P. Redick

TPR:rm

cc: J. McCafferty
J. Cox
G. Stirling
J. Ciko, Jr.
N. Wei
M. Callaghan
P. Cotter
A. Nutt

[151:LTR0242G90]

LILLICK & MCHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
ATTORNEYS AT LAW
101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
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725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

July 3, 1990

VIA FACSIMILE

Mr. Patrick Cotter
USEPA Region IX
Code W-7-1
1235 Mission Street
San Francisco, CA 94103

Re: Special Ocean Dumping Permit 90-02
VCS Samoa Packing Company, Inc.
Our File No. VAN09-017

Dear Patrick:

Following our telephone conference call last week with Ann Nutt, I spoke with the engineering staff for VCS Samoa Packing Company, Inc. regarding the EPA's desire to publish the referenced permit with an effective date of July 31, 1990. After giving the various possible scenarios considerable thought, we decided that VCS Samoa Packing Company could live with an effective date of July 31, 1990, provided that the EPA is willing to issue a vessel change designation on an expedited basis as necessary.

In our telephone conversation, you had indicated that a change in vessel designation could be done by a notification letter to you. This could be done on an emergency basis to allow a vessel change to take place without the 30 day written notice required by Paragraph 1.8 of the permit. In the event that anyone at EPA would require 30 days' written notice, please consider this letter to be such notice.

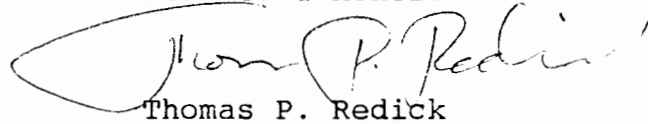
This should give VCS the flexibility it may require to conduct test runs with the M.V. Astro to ensure that it is operational prior to August 1, 1990. By the same token, it would allow the MATAORA to be substituted under the referenced ocean dumping permit after August 1, 1990, if the M.V. ASTRO cannot be operated for any reason.

Mr. Patrick Cotter
July 3, 1990
Page 2

While we are optimistic at the prospects of successfully barging as of August 1, 1990, we appreciate EPA's cooperation in minimizing unnecessary administrative barriers to implementing an effective barging operation. Your courtesy and cooperation on this matter are greatly appreciated.

Very truly yours,

LILLICK & McHOSE



Thomas P. Redick

TPR:rm

cc: James McCafferty
James Cox
Gordon Stirling
John Ciko
Norman Wei
Maurice Callaghan
Ann Nutt

[151:LTR0230G90]

LILLICK & MCHOSE
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
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101 WEST BROADWAY, 18TH FLOOR
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DIRECT DIAL NO.

(619) 544-3174

July 3, 1990

VIA FACSIMILE

Mr. Patrick Cotter
USEPA Region IX
Code W-7-1
1235 Mission Street
San Francisco, CA 94103

Re: Special Ocean Dumping Permit 90-02
VCS Samoa Packing Company, Inc.
Our File No. VAN09-017

Dear Patrick:

Following our telephone conference call last week with Ann Nutt, I spoke with the engineering staff for VCS Samoa Packing Company, Inc. regarding the EPA's desire to publish the referenced permit with an effective date of July 31, 1990. After giving the various possible scenarios considerable thought, we decided that VCS Samoa Packing Company could live with an effective date of July 31, 1990, provided that the EPA is willing to issue a vessel change designation on an expedited basis as necessary.

In our telephone conversation, you had indicated that a change in vessel designation could be done by a notification letter to you. This could be done on an emergency basis to allow a vessel change to take place without the 30 day written notice required by Paragraph 1.8 of the permit. In the event that anyone at EPA would require 30 days' written notice, please consider this letter to be such notice.

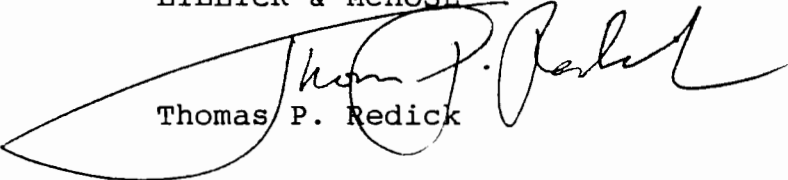
This should give VCS the flexibility it may require to conduct test runs with the M.V. Astro to ensure that it is operational prior to August 1, 1990. By the same token, it would allow the MATAORA to be substituted under the referenced ocean dumping permit after August 1, 1990, if the M.V. ASTRO cannot be

Mr. Patrick Cotter
July 3, 1990
Page 2

While we are optimistic at the prospects of successfully barging as of August 1, 1990, we appreciate EPA's cooperation in minimizing unnecessary administrative barriers to implementing an effective barging operation. Your courtesy and cooperation on this matter are greatly appreciated.

Very truly yours,

LILLICK & McHOSE


Thomas P. Redick

TPR:rm

cc: James McCafferty
James Cox
Gordon Stirling
John Ciko
Norman Wei
Maurice Callaghan
Ann Nutt

[151:LTR0230G90]

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TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

June 5, 1990

Mr. Patrick Cotter
Ocean Dumping Coordinator (W-7-1)
U. S. Environmental Protection Agency
Region IX
1235 Mission Street
San Francisco, California 94103

Re: Comments to Corrected Proposed Final Rule and
Revised Draft Special Ocean Dumping Permit
(OD 90-02) for VCS Samoa Packing Company, Inc.
Our File No. VAN09-017

Dear Mr. Cotter:

We are writing to advise that the corrected proposed final rule and revised draft special ocean dumping permit (OD-90-02) to be issued to VCS Samoa Packing Company, Inc. ("VCS") are acceptable to VCS. The change made to the vessel dumping path should ensure that the waste plume does not exceed the limiting permissible concentration at the border of the designated ocean disposal site. This permit allows for significant improvements in the water quality of Pago Pago Harbor without any adverse environmental impact in the area of the ocean disposal site. In fact, Dr. Soule's report indicates that this change will result in increased mixing which significantly lessens any environmental impact upon the disposal site.

With regard to the new monitoring requirement for temperature measurement, it is the understanding of VCS that the temperature data available to date has been fairly limited, requiring a limitation on the discharge rate during the summer months. If the temperature data does not indicate a significant warming during summer months, VCS understands that the EPA will consider site modifications to allow an increase in the pumping rate designated at Paragraph 4.4.1.2.

While there is no way of predicting what difficulties VCS may encounter in implementing the barging of its high-strength waste to this ocean disposal site, VCS is ready to begin barging

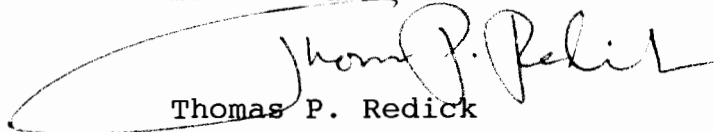
Mr. Patrick Cotter
June 5, 1990
Page 2

under the referenced ocean dumping permit. Since VCS is scheduled to begin barging in July of this year, we trust that the EPA will promptly issue an ocean dumping permit following the close of the comment period.

Thank you for your assistance in supervising the issue of the referenced ocean dumping permit.

Very truly yours,

LILLICK & McHOSE



Thomas P. Redick

TPR:rm

cc: Dyke Coleman, ASEQC
Pati Fai'ai, ASEPA
Tautai A.F. Fa'alevao, ASAG
Maurice Callaghan, Starkist Samoa
Norman Wei, Starkist Seafoods
Gordon Stirling, VCS Samoa Packing Co.
John Ciko, Esq., H.J. Heinz Co.

[151:LTR0199F90]

StarKist[★] Seafood Company

180 East Ocean Boulevard
Long Beach, California 90802-4797
Telephone: 213-590-9900

An Affiliate of H.J. Heinz Company



6 June 1990

Mr. Patrick Cotter
Regional Ocean Dumping Coordinator
(W-7-1)
U.S. EPA Region 9
1235 Mission Street
San Francisco, CA 94105

Subject: Draft Ocean Disposal Permit for StarKist Samoa, Inc.

Based on the extensive environmental studies performed by experts on the proposed ocean disposal practice in American Samoa, StarKist Samoa, Inc. wishes to support the final site designation and the issuance of a final permit which will enable the company to dispose of its high strength wastes at the designated site.

Respectfully submitted on behalf of
StarKist Samoa, Inc.

A handwritten signature in dark ink, appearing to read "Norman S. Wei", with a horizontal line extending to the right.

Norman S. Wei,
Manager, Environmental Engineering
StarKist Seafood Company

cc: M. Callaghan (StarKist Samoa)
R. Ward (StarKist Seafood)

D:\samoa\support.od

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DIRECT DIAL NO.

(619) 544-3174

April 4, 1990

VIA FEDERAL EXPRESS

Mr. Patrick Cotter
Ocean Dumping Coordinator
U.S. EPA Region IX
Oceans & Estuaries Section (W-7-1)
1235 Mission Street
San Francisco, CA 94103

Re: Comments on Draft Special Ocean Discharge
Permit 90-02
Our File No. VAN09-017

Dear Mr. Cotter:

This letter represents the comments of VCS Samoa Packing Company ("VCS") to the referenced Special Ocean Dumping Permit. This letter also responds to the EPA's request in its letter dated February 21, 1990, for additional modeling to be performed by Dr. Dorothy Soule. We enclose for your review the report prepared by Dr. Soule entitled "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site Off Tutuila Island, American Samoa, March 1990."

First, VCS would like to request a change in the designated waste transporter under paragraph 1.8 of the draft permit. The new designated waste transporter will be M.V. ASTRO, which has a capacity of 200,000 gallons. This vessel is represented in the enclosed modeling report as Vessel No. 1. Dr. Soule conducted modeling for a variety of vessels to provide a range of possible vessels. As noted in the enclosed report, vessel size did not prove to be a significant factor in Dr. Soule's calculations.

As you will recall, the draft permit does not provide sufficient capacity for VCS to dispose of all its high-strength waste as is required by the proposed consent decree regarding the NPDES permit. VCS requests that the draft permit be modified to allow for a maximum daily discharge of 60,000 gallons of DAF sludge, 100,000 gallons of precooker water, and 40,000 of press water for a maximum of 200,000 gallons a day. VCS would usually discharge approximately 100,000 gallons a day, but requires 200,000 gallons a day to allow for emergencies. The enclosed modeling report prepared by Dorothy Soule indicates that 200,000 gallons can be discharged in one trip without exceeding the

Mr. Patrick Cotter
April 4, 1990
Page 2

limiting permissible concentration ("LPC") at the site boundary. The total permitted discharge of 400,000 gallons would only be discharged if both canneries were to incur an emergency backlog of waste simultaneously. Two trips would be required to discharge 400,000 gallons.

It is important to remember that the increase in capacity of the vessel will not create any change in environmental impacts, provided that the waste continues to be discharged at the rate of 140 gallons per knot per minute with a 1,400 gallons per minute maximum). Accordingly, the increase in total permitted discharge to 400,000 gallons a day for both canneries can be permitted without any adverse environmental impact.

The EPA also requested in its February 21 letter that VCS conduct additional modeling to ensure that the LPC would never be violated at the site boundary under any circumstances. As you will recall, the Final Environmental Impact Statement ("FEIS") was approved despite modeling showing that the LPC could be violated under certain theoretical current conditions (FEIS at B-36). You indicated telephonically that an elliptical dump pattern might help to ensure that the LPC would not be exceeded.

Dr. Soule's modeling reveals that the elliptical dump pattern which you suggested would provide a significant environmental benefit and ensure that the LPC is not exceeded. To quote the report's conclusions directly:

1. Changes in vessel size, either increase or decrease, and increase in gallonage of the sludge tank capacity made little change in the projections reported in FEIS (1989).
2. An increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution.
3. If the waste disposal ship travels in a waste discharging path that will result in an initial plume width anywhere between 1.5 n mi and 2.0 n mi, a pumping rate of 1400 gpm can be used in the winter season for the discharge of the fish waste. The plume with dilution reaching LPC will remain within the 3 n mi diameter dumpsite with currents up to 0.8 knots.

4. In the summer, the diluted plume reaching LPC will remain within the 3 n mi diameter site with current up to 0.8 knots if the waste dump path is 2.0 n mi and the pumping rate does not exceed 1200 gpm. (This would require an additional 23.8 minutes for complete dumping of the 200,000 gallons as compared with the 1400 gpm pumping rate).

5. The range of current velocities measured by actual movement of the waste field was 0.06 to 0.68 knots with a mean of 0.34 knots. The computer simulated current covers 0.2-0.8 knots. This should cover any contingency for conditions under which the waste vessel would dump.

6. The proposed center of the dumpsite, as described in the FEIS (1989), is located at 14°24.00'S by 170°38.30'W as was approved. The dumpsite is a circle with a diameter of 3 n mi. To achieve the initial dump path (L) of 2.0 n mi, the path should be located at a vertical distance of 1.1 n mi up current from the center of the dumpsite.

7. Gathering of further temperature data might provide information on the range of diffusion coefficients which could perhaps allow an increase in the pumping rate for the summer at the preferred site. Winter is presently defined as June through November and summer is defined as December through May (FEIS, 1989).

8. If the dumpsite were enlarged to 5 n mi at a future date, a pumping rate of 1400 gpm could be used in winter and summer to achieve the LPC dilution at the dumpsite boundary.

VCS also requests that the requirement for analysis of waste material be changed from monthly to twice yearly. Since VCS' waste material does not significantly vary from time to time, it is unnecessary to test it on a monthly basis. Should the EPA see a need for supplemental testing of waste material in addition to a twice yearly requirement, VCS would conduct such testing at the EPA's request. VCS could submit the analysis of waste materials along with its six-month periodical report under paragraph 3.3. VCS requests that the permit be modified accordingly.

Finally, we would like to point out a few typographical errors. First, there is a small discrepancy in the longitude of

Mr. Patrick Cotter
April 4, 1990
Page 4

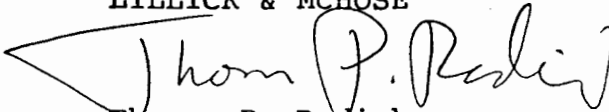
the dump site. The FEIS states that the site longitude is 170° 38.30'W. The proposed final rule and draft permit state the longitude at 170° 38.20'W. We are uncertain as to whether this is a typographical error or a minor modification to the site designation, but thought we would bring it to your attention. Second, the site diameter should be stated as having a diameter of 3.0 n mi in Paragraph 2.2 of the Draft Permit.

In sum, both the FEIS and the additional modeling performed by Dr. Soule indicate that VCS may discharge 200,000 gallons a day from the vessel ASTRO without violating the LPC. These changes could be made under the current FEIS without the need for a change in the dump path or pumping rate. However, Dr. Soule has advised that the modification to the dump path and pumping rate requested above should be made to ensure compliance with federal regulations regarding the LPC under all circumstances.

Since the pending settlement of our NPDES permit dispute is dependent upon receiving an ocean dumping permit along the lines outlined above, we respectfully request that the EPA process these modifications as expeditiously as possible. We thank you for your assistance and understanding in helping us resolve the technical issues relating to this permit. If you have any questions or comments regarding the foregoing, please feel free to call me or James Cox at (314) 342-9887.

Very truly yours,

LILLICK & MCHOSE


Thomas P. Redick

TPR:rm

cc: James McCafferty
James Cox
Barbara Ettlinger
Norman Lovelace

151:LTR0122D90

IRA S. LILICK (1875-1987)
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TELEPHONE (213) 488-7100

DIRECT DIAL NO.

(619) 544-3174

February 5, 1990

VIA FACSIMILE

Barbara Ettlinger
Office of Regional Counsel
USEPA Region IX
215 Fremont Street
San Francisco, CA 94105

Re: Van Camp Seafood/EPA
Ocean Dumping Permit OD 90-02 Special
Our File No. VAN09-017

Dear Barbara:

This letter serves to follow up on recent telephone conversations, wherein we have discussed possible methods for resolving the errors in the Ocean Dumping Permit issued to Van Camp Seafood Company's ("VCS") subsidiary, Samoa Packing Company (OD 90-02). At the meeting in Honolulu, VCS was advised that the Ocean Dumping Permit would be revised as necessary to accommodate the barging of high strength waste. While we understand that the current problems with the Ocean Dumping Permit are not in any way attributable to you personally, we will require your assistance to resolve these difficulties on an expedited basis.

As you are aware, the figures stated in the existing ocean dumping permit for Samoa Packing Company will not allow it to barge the high-strength waste required in the pending settlement of its NPDES Permit dispute. We believe the EPA should adjust the figures in the ocean dumping permit in a manner which will allow Samoa Packing Company to meet the obligations imposed by its NPDES permit. The necessary adjustments may be made to the ocean dumping permit without increasing the total permitted discharge under the existing ocean dumping permits of Starkist and Samoa Packing Co., since Starkist has a greater total permitted discharge (200,000 gallons/day) than it needs.

Ms. Barbara Ettlinger
February 5, 1990
Page 2

Moreover, if a small increase in the total permitted discharge is necessary, we believe it can be done without creating any significant environmental impact and can be approved under 40 C.F.R. 228.4(b) as a "small" amount.

Finally, VCS is extremely concerned that the respective ocean dumping permits issued to Starkist Samoa ("Starkist") and VCS/Samoa Packing Co. reflect a gross disparity in the amounts of waste that are permitted for discharge into the ocean. This disparity is reflected quite clearly on page 3 of the public notice, which states as follows:

Waste Material	Star-Kist Samoa (gallons/day)	Samoa Packing Co. (gallons/day)	Total Permitted Discharge (gallons/day)
DAF Sludge	60,000	31,400	91,400
Precooker Water	100,000	13,300	113,300
Press Water	40,000	12,200	52,200
Total Maximum Daily Volume	200,000	56,900	256,900

This disparity, like the disparity in interim limitations which VCS has previously pointed out, creates an intolerable situation. With the EPA's assistance, we would like to remedy this situation.

Given the narrow time frame in which we must operate, we believe a meeting in San Francisco should be arranged, whereby you, Mr. Cotter, Ms. Young, Mr. Cox and I could discuss the technical and legal obstacles to obtaining approval for the barging of all high strength waste. We need to isolate the real problems and develop an action plan for resolving these problems on an expedited basis.

Since Mr. Cox is presently in San Francisco on other business until Wednesday, we would like to arrange such a meeting this week. Please call me as soon as possible to discuss possible times and places for a meeting with the referenced persons to discuss this matter. I cannot stress enough the importance of resolving the problems with the ocean dumping permit as soon as possible, since it would appear to be the key to a settlement which must be finalized in order to safeguard the economy and the water quality of American Samoa.

Ms. Barbara Ettlinger
February 5, 1990
Page 3

Thank you for your prompt attention to the issues raised in
this letter.

Very truly yours,

~~LILLICK & MCHOSE~~

A handwritten signature in dark ink, appearing to read "JRM", is written over a large, stylized, hand-drawn triangle.

Thomas P. Redick

TPR:rm

cc: Jim Cox
Jim McCafferty

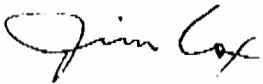
[151:LTR0043B90]

February 1, 1990

Pat Young-USEPA

Please find second page with volumes of high strength waste as we discussed.

Best Regards,

A handwritten signature in cursive script, appearing to read "Jim Cox".

Feb. 1, 1990

PROJECTED OCEAN DUMPING VOLUMES
(GALLONS)

	<u>320T</u>	<u>350T</u>	<u>400T</u>
DAF SLUDGE	28,000	31,000	35,000
PRECOOKER WATER	24,000	26,000	30,000
PRESS WATER	12,000	13,000	15,000
TOTAL	64,000	70,000	80,000

NOTE: RATIO ABOVE HIGH STRENGTH WASTE AT 201 GAL/TON



VAN CAMP
SEAFOOD
COMPANY, INC

October 10, 1989

Regional Hearing Clerk
U. S. EPA, Region IX
215 Fremont Street
San Francisco, CA 94105

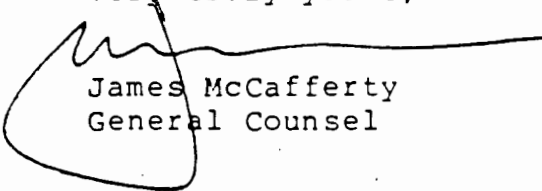
In the Matter of
Star-Kist Samoa, Inc.,
NPDES Permit No. AS0000019;
Samoa Packing Company
NPDES Permit No. AS0000027;
Docket No. NPDES-09-87-0003

Dear Sir or Madam:

Please take notice that Van Camp Seafood Company, Inc., as successor in interest to Ralston Purina Company, for itself and on behalf of VCS Samoa Packing Company, as successor in interest to Samoa Packing Company, does hereby enter its appearance in the referenced matter, through counsel

Patrick C. Shea, Esq.
Thomas P. Redick, Esq.
Lillick & McHose
101 W. Broadway, 18th Floor
San Diego, CA 92101
Tel 619/234-5000
FAX 619/236-1995

Very truly yours,



James McCafferty
General Counsel

JMC:am

cc: Patrick C. Shea, Esq.
Frank H. Hackmann, Esq.
Barbara Ettlinger, Esq.
Hon. Thomas B. Yost
Dan L. Vogus, Esq.
Pati Faiai
John Siko, Jr., Esq.

P. S. Barbara -

I also enclose, for your historical interest only, copies of the various letters attempting to transfer A/Samoa EPA matters to my office.

Regards,




VAN CAMP
SEAFOOD
COMPANY, INC.

December 2, 1988

Mr. Patrick Cotter
Environmental Scientist
U.S. EPA, Region 9
215 Fremont Street
San Francisco, CA 94105

RE: Samoa Packing Company, Inc.
Renewal of Ocean Dumping Permit No. OD 88-02 Research

Dear. Mr. Cotter:

The following is respectfully submitted as application for renewal of Permit OD 88-02 Research:

Name and Address of Applicant

Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

Transporter

The current transporter is Silk and Boyd of the Kingdom of Tonga operating the vessel MV Mataora, home ported in Pago Pago, American Samoa. The Mataora has a length of approximately 49 meters, a beam of 8.1 meters, and a draft of 3.4 meters. It is equipped with a magnetic compass, eight-mile radar, and a multi-channel VHF radio. Vessel capacity is approximately 27,200 gallons.

Producer

Materials to be dumped will originate from the cannery operated by Samoa Packing Company, Inc. (SAMPAC) located in American Samoa. All materials will be delivered to the transporter via a dockside pipeline at the cannery. The only processing of wastes will be at the wastewater treatment facilities at SAMPAC that discharge effluent under NPDES Permit Number AS0000027.

Description of Materials to be Dumped

Materials to be dumped include precooker water, press water, and dissolved air flotation sludge from the wastewater treatment plant. Attached are summaries of laboratory analyses for each waste stream based on samples collected during the OD 86-01, OD 87-01, OD 88-01, and OD 88-02 (to date) permit periods.

Maximum Daily Quantities of Materials to be Dumped

Dissolved Air Flotation (DAF) Sludge	31,400 gallons per day
Pre-cooker Water (cooker juice)	13,300 gallons per day
Press Water	<u>12,200 gallons per day</u>
Total Maximum Daily Volume	56,900 gallons per day

Proposed Dates and Time of Disposal

Materials would be dumped up to seven days per week. Dumping operations would be restricted to daylight hours unless an emergency exists and prior approval is obtained from the U.S. Coast Guard or the American Samoa EQC.

Proposed method of releasing materials at the dump site and means by which the disposal rate can be controlled and modified as required

The materials would be released while the boat is underway through a 4" diameter discharge port in the bottom of the hull. The discharge line exits through the hull at the load water line and is then directed aft into the propeller wash below the water line. Initial mixing is effected by the turbulence from the hull and propellers and the discharge velocity. The rate of discharge can be varied according to the speed of the ship at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

Identification of the specific process or activity giving rise to production of the materials

1. The precooker water results from the tuna precooking process.
2. The press water results from operations in the fish meal reduction plant.
3. The DAF sludge is produced during treatment of cannery process wastewater. It consists of solids, floatable oils, fats, and grease removed from the raw waste by the addition of dissolved air, alum and polymer. This treatment is required by Federal Regulation in order to comply with the plant's NPDES permit.

Description of the manner in which the type of materials proposed to be dumped have been previously disposed of by or on behalf of the persons or firms producing such materials

Until issuance of ocean dumping permits in American Samoa, the waste materials were disposed of by land filling or storage in lagoons in American Samoa. In 1978, inspectors from the EPA's National Enforcement Investigations Center in Denver, Colorado recommended that alternatives be found to land disposal in that it was unacceptable to the local population given the lack of landfill capacity and the very wet environment in American Samoa. The inspectors concluded that ocean dumping would be an appropriate means of disposal. Ocean disposal has been the practice since October, 1980 originally under a Special Ocean Dumping Permit with an Interim Site designated by EPA, which was later replaced by Research Ocean Dumping Permits issued in February, 1987, September, 1987, March, 1988 and September, 1988.

A statement on the need for the proposed dumping and an evaluation of the short and long-term alternative means of disposal, treatment or recycle of the material

The dissolved air flotation sludge must be ocean dumped as land disposal would be unacceptable due to the wet nature of the material, odors, and attraction for vermin. Also, the only relatively flat land on American Samoa that might otherwise be used as a landfill site overlies the water supply aquifer, so that there may be danger of contamination by nitrates. It is theoretically possible to recycle DAF sludge into an animal feed supplement by drying it, but the bulking materials that would be required are unavailable in American Samoa, nor is this process a viable alternative economically. Incineration of the sludge is, again, theoretically possible but would require a large amount of fuel in order to evaporate the high water content of the materials. Other methods of utilization of the sludge, such as anaerobic digestion could produce a useful by-product such as methane from the digestion process, but would still result in sludge material requiring disposal.

Press water and precooker water are presently segregated from the dissolved air flotation treatment plant where solids and oils are captured in the sludge for ocean disposal. In that a higher level of nutrient removal from the final waste effluent is desired, high-strength, relatively low concentration waste streams such as press and precooker water may be ocean dumped before waste treatment. The alternative to not dumping press and precooker water would reduce the total volume of waste that requires ocean dumping, but increase the waste load discharged to the harbor.

An assessment of the anticipated environmental impact of the
proposed dumping

The anticipated environmental impact is covered in a publication submitted to EPA by the tuna canners in June, 1983 titled A Report on Ocean Disposal of Fish Processing Wastes Off Pago Pago, American Samoa. A further assessment is discussed in an environmental impact statement being prepared by a consultant for the canners. The on-site monitoring which has been conducted during the Research Permit periods provides information regarding currents at the dump site area, water quality before, during, and after dumping episodes, and the fate of the materials. Observations of biological life, sea state, wind velocity and direction, and any unusual occurrences have been noted. Also, waste stream analysis has been conducted on an ongoing basis during the seven and a half years that ocean dumping has taken place.

Check Enclosed

A check for \$1,000.00 payable to the U.S. EPA, Region 9, is enclosed.

We trust we have provided all information required for application for a renewed ocean dumping permit. If anything further is needed, however, please feel free to call me at (314) 982-4003.

Sincerely,

SAMOA PACKING COMPANY, INC.



Fred H. Avers
Chairman of the Board and
Chief Executive Officer

Enclosures

cc: Mr. Pati Faiai - ASG EQC
Mr. Norman Lovelace - U.S. EPA, Region IX
Mr. Jeffrey Naumann - Star-Kist Foods
Mr. Gordon Stirling - SAMPAC, American Samoa

SAMOA PACKING COMPANY
MONTHLY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

Page 1 of 7

WASTE STREAM: DAF SLUDGE

PARAMETER	UNITS	04/87 *	05/87	06/87	07/87	08/87	09/87	10/87	11/87	12/87	01/88	02/88	03/88	04/88	05/88	06/88	07/88	08/88
TSS	mg/l	73,300	138,000	178,000	112,000	117,000	156,450	106,300	135,000	---	75,800	146,000	261,000	135,500	174,000	85,450	138,500	53,500
BOD 5	mg/l	59,600	75,600	88,600	67,800	33,300	80,200	50,000	81,000	---	20,200	62,600	117,000	87,000	142,000	58,000	178,500	75,000
TOT. PHOSPHORUS	mg/l	1,690	3,390	470	1,465	150	1,610	1,880	1,258	---	1,375	620	1,199	676	816	1,260	2,278	1,174
TOT. NITROGEN	mg/l	4,400	4,200	3,700	5,800	3,612	4,425	7,760	4,232	---	2,700	1,558	2,350	1,910	5,110	3,270	3,593	4,500
OIL & GREASE	mg/l	72,863	42,600	151,000	94,000	40,600	68,750	37,000	59,000	---	13,000	92,500	160,000	77,500	130,000	87,000	155,000	42,500
pH	Std.	6.2	6.0	7.0	6.6	6.4	6.0	5.7	5.9	---	5.4	7.5	5.5	6.6	6.8	6.6	6.4	6.4
TVS	mg/l	807,000	110,900	169,000	94,900	106,000	134,900	83,700	120,000	---	64,200	136,500	245,500	126,500	164,000	81,350	132,000	51,000
DENSITY	g/ml	1.01	1.07	0.99	1.00	1.00	0.97	1.00	0.95	---	1.00	0.95	1.00	0.96	0.94	0.99	0.90	0.91
AMMONIA	mg/l	1,200	1,305	950	1,125	412	1,330	2,600	980	---	852	5,550	1,520	1,195	880	1,385	687	820
ALUMINUM	ug/l	642,000	736,000	67,000	1,350,000	611,000	955,000	835,000	228,350	---	1,092,000	227,750	1,025,000	164,850	31,900	28,100	1,170,000	508,000
CHROMIUM	ug/l	651	1,600	120	1,590	1,310	1,430	1,340	955	---	1,180	1,005	1,130	695	1,090	2,025	2,140	1,115
NICKEL	ug/l	264	1,750	160	850	410	570	1,117	450	---	700	975	955	260	520	1,245	885	880
COPPER	ug/l	1,030	5,210	220	2,090	2,420	3,050	40	3,085	---	2,550	4,255	6,690	2,475	4,690	7,625	4,765	3,475
LEAD	ug/l	640	2,770	190	1,700	960	1,360	1,620	1,000	---	700	1,575	2,500	585	1,400	1,850	1,570	1,105
CADMIUM	ug/l	761	1,720	580	552	390	600	2	688	---	485	1,795	2,404	1,671	1,045	3,273	1,710	1,480
MERCURY	ug/l	0.3	18.0	17.7	6.0	11.0	24.5	24.0	28.0	---	15.0	16.5	18.5	24.0	11.0	46.0	16.0	25.5
PETROLEUM HYDROCARBONS **	ug/l	---	---	---	---	---	48,000	5,700	5,800	---	2,300	4,100	4,500	3	5,500	4,650	4,100	2,150

* TVS thru Mercury values represent DAF Sludge & Press Water combined

** Value x 1,000

SAMOA PACKING COMPANY
SUMMARY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02
WASTE STREAM: DAF SLUDGE

PARAMETER	UNITS	09/88	10/88	11/88	12/88	01/89	02/89	88-02 PERMIT LIMIT	* * * * * SUMMARY: 04/87 THRU 10/88 * * * * *			
									AVE.	RANGE	S.D.	C.V.
TSS	mg/l	107,850	276,500 X					219,000	137,231	53,500 - 276,500	58,714	43%
OD 5	mg/l	92,750	210,750 X					X 337,500	87,772	20,200 - 210,750	48,058	55%
TOT. PHOSPHORUS	mg/l	1,354	1,078					X 3,390	1,319	150 - 3,390	732	56%
TOT. NITROGEN	mg/l	3,940	4,875					15,000	3,996	1,558 - 7,760	1,450	36%
OIL & GREASE	mg/l	98,500	245,000					151,000	92,601	13,000 - 245,000	57,393	62%
pH	Std.	6.4	6.6					5.5 - 7.0	6.3	5.4 - 7.5	0.5	8%
TVS	mg/l	106,500	267,000					---	166,719	51,000 - 807,000	169,226	102%
DENSITY	g/ml	0.90	0.97					---	0.97	0.90 - 1.07	0.04	4%
AMMONIA	mg/l	680	805					---	1,349	412 - 5,550	1,149	85%
ALUMINUM	ug/l	590,000	241,500					---	583,525	28,100 - 1,350,000	423,144	73%
CHROMIUM	ug/l	1,445	1,370					---	1,233	120 - 2,140	477	39%
NICKEL	ug/l	950	440					---	743	160 - 1,750	404	54%
COPPER	ug/l	3,425	3,535					---	3,368	40 - 7,625	1,996	59%
LEAD	ug/l	1,575	1,405					---	1,361	190 - 2,770	648	48%
CADMIUM	ug/l	610	1,380					---	1,175	< 2 - 3,273	824	70%
MERCURY	ug/l	31.0	28.0					---	20.1	0.3 - 46.0	10.3	52%
PETROLEUM HYDROCARBONS **	ug/l	5,300	13,000					---	8,085	3 - 48,000	12,360	153%

** Value x 1,000

SAMOA PACKING COMPANY

Page 3 of 7

MONTHLY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

WASTE STREAM: PRESS WATER

PARAMETER	UNITS	04/87 *	05/87	06/87	07/87	08/87	09/87	10/87	11/87	12/87	01/88	02/88	03/88	04/88	05/88	06/88	07/88	08/88
TSS	mg/l	220,180	285,000	311,000	308,000	280,000	247,000	441,000	190,000	---	296,100	386,000	254,000	268,000	276,500	207,000	276,000	236,000
JOD 5	mg/l	63,375	133,000	145,000	160,000	213,000	197,000	188,000	116,000	---	122,000	130,000	166,000	224,900	140,000	165,000	208,000	168,000
TOT. PHOSPHORUS	mg/l	60	3,810	2,340	2,370	1,820	2,310	11,360	1,307	---	2,234	1,425	1,464	1,842	1,902	1,890	1,605	1,648
TOT. NITROGEN	mg/l	---	9,000	22,000	10,750	21,915	12,200	10,752	11,279	---	19,300	22,100	11,300	7,500	17,025	13,794	10,175	6,310
OIL & GREASE	mg/l	79,582	132,000	166,000	147,000	117,000	81,800	250,000	66,000	---	51,000	210,000	110,000	102,000	92,500	110,000	190,000	120,000
pH	Std.	6.5	6.8	6.8	6.8	6.6	5.6	6.1	6.5	---	6.1	6.8	6.0	6.2	7.5	6.8	6.1	6.2
TVS	mg/l	807,000	256,200	281,000	251,000	253,000	202,100	409,000	156,000	---	269,900	338,000	227,000	242,000	248,000	203,000	275,000	234,000
DENSITY	g/ml	1.01	1.05	1.05	1.05	0.94	1.01	1.04	1.00	---	1.03	0.98	1.03	1.04	1.03	1.05	1.00	1.02
AMMONIA	mg/l	1,200	493	1,613	2,300	2,620	362	5,800	540	---	759	3,070	430	1,920	306	351	286	1,085
ALUMINUM	ug/l	642,000	1,900	800	1,940	7,580	3,480	6,100	100	---	800	1,600	500	470	1,600	1,000	660	235
CHROMIUM	ug/l	651	210	130	280	790	480	820	50	---	390	620	290	510	645	410	200	290
NICKEL	ug/l	264	270	210	390	380	300	680	100	---	650	450	100	30	250	180	130	550
COPPER	ug/l	1,030	960	360	410	820	760	2,670	480	---	800	1,020	730	970	1,090	1,200	580	1,090
LEAD	ug/l	640	230	330	800	300	100	980	300	---	300	450	100	510	425	550	270	600
CADMIUM	ug/l	761	409	402	526	742	486	358	237	---	315	535	530	220	438	510	260	600
MERCURY	ug/l	0.3	< 1.0	< 1.0	14.0	20.0	< 1.0	< 1.0	27.0	---	11.0	10.0	15.0	10.0	9.0	11.0	8.0	57.0
PETROLEUM HYDROCARBONS **	ug/l	---	---	---	---	---	52,000	4,500	710	---	750	2,000	2,300	2.4	1,250	1,300	2,000	1,100

* TVS thru Mercury values represent DAF Sludge & Press Water combined

** Value x 1,000

SAMOA PACKING COMPANY

SUMMARY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

WASTE STREAM: PRESS WATER

PARAMETER	UNITS	09/88	10/88	11/88	12/88	01/89	02/89	88-02 PERMIT LIMIT	***** SUMMARY: 04/87 THRU 10/88 *****			
									AVE.	RANGE	S.D.	C.V.
TSS	mg/l	257,000	540,000					441,000	293,266	190,000 - 540,000	85,759	29%
OD 5	mg/l	255,000	25,700					213,000	156,665	25,700 - 255,000	56,064	36%
TOT. PHOSPHORUS	mg/l	1,124	1,360					11,360	2,326	60 - 11,360	2,374	102%
TOT. NITROGEN	mg/l	5,850	10,500					22,000	13,044	5,850 - 22,100	5,436	42%
OIL & GREASE	mg/l	180,000	390,000					---	144,160	51,000 - 390,000	80,783	56%
pH	Std.	6.2	6.5					5.5 - 7.0	6.45	5.60 - 7.50	0.44	7%
TVS	mg/l	213,000	527,000					---	299,567	156,000 - 807,000	152,117	51%
DENSITY	g/ml	1.02	0.99					---	1.02	0.94 - 1.05	0.03	3%
AMMONIA	mg/l	740	530					---	1,356	286 - 5,800	1,406	104%
ALUMINUM	ug/l	6,200	1,000					---	37,665	100 - 642,000	150,839	400%
CHROMIUM	ug/l	480	550					---	433	50 - 820	222	51%
NICKEL	ug/l	460	160					---	309	30 - 680	191	62%
COPPER	ug/l	1,230	900					---	950	360 - 2,670	501	53%
LEAD	ug/l	410	480					---	432	100 - 980	228	53%
CADMIUM	ug/l	520	550					---	467	220 - 761	154	33%
MERCURY	ug/l	16.0	1.0					---	11.9	0.3 - 57.0	13.5	114%
PETROLEUM HYDROCARBONS **	ug/l	4,900	2,400					---	5,786	2 - 52,000	13,957	241%

** Value x 1,000

SAMOA PACKING COMPANY

Page 5 of 7

MONTHLY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

WASTE STREAM: PRECOOKER WATER

PARAMETER	UNITS	04/87	05/87	06/87	07/87	08/87	09/87	10/87	11/87	12/87	01/88	02/88	03/88	04/88	05/88	06/88	07/88	08/88
TSS	mg/l	8,810	55,000	83,700	51,500	102,000	33,200	27,450	59,400	---	25,700	93,100	13,200	1,580	724,000	2,800	3,700	3,850
MOD 5	mg/l	37,986	31,400	34,500	17,500	34,100	16,500	13,500	33,000	---	10,750	10,400	12,800	---	419,000	8,500	22,800	7,600
TOT. PHOSPHORUS	mg/l	48	1,295	458	406	92	364	439	742	---	320	239	206	8	282	243	648	223
TOT. NITROGEN	mg/l	832	8,190	3,500	4,680	2,890	2,100	3,650	5,071	---	2,615	1,780	1,480	35	1,534	1,950	6,135	2,360
OIL & GREASE	mg/l	41,333	3,900	30,300	5,760	53,600	3,140	1,600	21,000	---	1,070	340,000	1,400	92	550,000	270	160	240
pH	Std.	5.8	6.0	7.0	6.8	6.6	5.6	6.2	6.4	---	6.0	7.4	6.2	6.4	7.2	7.1	6.6	6.5
TVS	mg/l	---	39,800	77,300	28,800	89,700	27,600	20,400	44,600	---	19,400	89,400	8,200	500	714,000	2,650	3,700	3,650
DENSITY	g/ml	---	1.02	1.01	1.02	1.01	1.01	1.01	0.96	---	1.00	0.97	1.00	1.00	0.96	1.00	0.99	0.99
AMMONIA	mg/l	---	216	120	94	1,240	209	575	200	---	220	5,000	900	7	117	60	101	60
ALUMINUM	ug/l	---	360	400	120	3,110	525	500	600	---	1,150	18,300	2,500	100	6,700	900	630	3,900
CHROMIUM	ug/l	---	60	< 10	30	100	10	10	180	---	250	1,110	270	140	1,030	70	140	110
NICKEL	ug/l	---	100	40	100	20	60	295	50	---	675	500	200	40	250	90	230	510
COPPER	ug/l	---	880	160	830	1,170	180	315	590	---	300	3,110	560	20	1,860	130	350	170
LEAD	ug/l	---	60	30	140	160	< 20	110	60	---	85	350	300	30	500	300	160	300
CADMIUM	ug/l	---	88	63	90	231	124	196	225	---	85	1,010	1,112	13	560	90	180	250
MERCURY	ug/l	---	< 1.0	6.7	4.0	11.0	< 1.0	7.5	19.0	---	2.5	2.0	5.0	< 1.0	2.0	2.0	3.0	6.0
PETROLEUM HYDROCARBONS **	ug/l	---	---	---	---	---	21,000	28	140	---	10	2,300	40	0.02	8,100	8	< 5	< 5

** Value x 1,000

SUMMARY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

WASTE STREAM: PRECOOKER WATER

								88-02 PERMIT LIMIT	***** SUMMARY: 04/87 THRU 10/88 *****				
PARAMETER	UNITS	09/88	10/88	11/88	12/88	01/89	02/89		AVE.	RANGE	S.D.	C.V.	

TSS	mg/l	3,400	12,400					102,000	72,488	1,580 - 724,000	165,893	229%	
OD 5	mg/l	21,400	7,600					82,100	43,490	7,600 - 419,000	97,337	224%	
TOT. PHOSPHORUS	mg/l	644	129					1,295	377	8 - 1,295	309	82%	
TOT. NITROGEN	mg/l	3,210	1,380					9,930	2,966	35 - 8,190	2,016	68%	
OIL & GREASE	mg/l	28,000	4,900					---	60,376	92 - 550,000	145,379	241%	
pH	Std.	6.5	6.4					5.5 - 7.0	6.4	5.6 - 7.4	0.5	8%	
TVS	mg/l	43,400	10,100					---	71,953	500 - 714,000	168,048	234%	
DENSITY	g/ml	0.98	1.00					---	1.00	0.96 - 1.02	0.02	2%	
AMMONIA	mg/l	236	163					---	560	7 - 5,000	1,190	213%	
ALUMINUM	ug/l	1,200	300					---	2,429	100 - 18,300	4,443	183%	
CHROMIUM	ug/l	140	100					---	221	< 10 - 1,110	329	149%	
NICKEL	ug/l	340	290					---	223	20 - 675	194	87%	
OPPER	ug/l	180	230					---	649	20 - 3,110	789	122%	
LEAD	ug/l	110	30					---	161	< 20 - 500	140	86%	
CADMIUM	ug/l	180	90					---	270	13 - 1,112	322	119%	
MERCURY	ug/l	4.0	3.0					---	4.7	< 1.0 - 19.0	4.6	96%	
PETROLEUM HYDROCARBONS **	ug/l	3,500	22					---	2,704	0.02 - 21,000	5,980	221%	

** Value x 1,000

SUMMARY DATA - RESEARCH PERMITS OD 86-01 - OD 88-02

AVERAGE QUANTITIES (GALLONS) PER DAY

	04/87	05/87	06/87	07/87	08/87	09/87	10/87	11/87	12/87	01/88	02/88	03/88	04/88	05/88	06/88	07/88	08/88
DAF SLUDGE:																	
NBR. DAYS	25	26	29	22	16	22	21	20	18	16	18	22	13	14	19	13	18
AVG. GAL/DAY	20,318	20,734	18,726	18,350	18,653	18,743	17,411	19,453	17,844	19,964	20,977	19,762	20,943	19,830	21,568	23,038	22,157
PRESS WATER:																	
NBR. DAYS	25	25	16	22	26	28	27	23	24	25	25	27	24	20	27	21	25
AVG. GAL/DAY	1,000	1,000	873	883	883	968	975	966	967	840	918	885	764	801	924	810	904
PRECOOKER WATER:																	
NBR. DAYS	25	25	20	26	29	28	27	23	24	25	25	27	24	20	27	21	25
AVG. GAL/DAY	2,000	2,000	1,599	1,661	1,674	1,939	1,916	1,935	1,938	1,682	1,839	1,773	1,530	1,555	1,851	1,624	1,811

							SUMMARY:	* * * * * MONTHS: 04/87 THRU 10/88 * * * * *														
							88-02 PERMIT LIMIT	AVE.				RANGE				S.D.		C.V.				
								* * * * *				* * * * *				* * * * *		* * * * *				
							09/88	10/88	11/88	12/88	01/89	02/89										
DAF SLUDGE:							DAF SLUDGE:															
NBR. DAYS							12	17	19													
AVG. GAL/DAY							20,241	21,508	31,400				20,012	17,411	-	23,038	1,502	8%				
PRESS WATER:							PRESS WATER:															
NBR. DAYS							24	27	24													
AVG. GAL/DAY							659	947	12,200				893	659	-	1,000	88	10%				
PRECOOKER WATER:							PRECOOKER WATER:															
NBR. DAYS							24	27	25													
AVG. GAL/DAY							1,321	1,897	13,300				1,766	1,321	-	2,000	186	11%				

NO. _____

12-6-5 1958

RECEIVED FROM Patrick Cotter

check for beach dump permit DOLLARS

Van Camp Seafood

Account Total \$ _____

Amount Paid \$ 1000.00 check # 128051.

Balance Due \$ _____ James H. Nelson

"THE EFFICIENCY LINE" AN AMPAD PRODUCT



VAN CAMP SEAFOOD COMPANY, INC.

CHECK STUB 78 128051

CPP 5430F-8708

DATE 12/05/88	LOCATION SAMOA PACKING CO.	NET AMOUNT 1,000.00	SUPPLIER NAME U. S. EPA. REGION 9	ATT
------------------	-------------------------------	------------------------	--------------------------------------	-----

VOUCHER NO.	REFERENCE	AMOUNT	VOUCHER NO.	REFERENCE	AMOUNT
-------------	-----------	--------	-------------	-----------	--------

03-000001 1,000.00
SAMPAC OCEAN DUMPING PERMIT RENEWAL FEE
FOR FURTHER INFOR. CONTACT VAN CAMP ACCOUNTS PAYABLE

314 982-1305



VAN CAMP SEAFOOD COMPANY, INC.

Wholly-owned Subsidiary of Ralston Purina Company

901 Chouteau Ave.

St. Louis, MO 63164

LOC/SUPPLIER NO.
0558-040726

DATE 12/05/88 BANK CODE 78 CHECK 128051

128051 82-91 1021

AMOUNT

\$1,000.00

PAY EXACTLY
ONE THOUSAND & NO/100 DOLLARS

U. S. EPA. REGION 9
215 FREMONT STREET
SAN FRANCISCO CA 94105

PAY
TO THE
ORDER
OF

2808 North Avenue, Grand Junction, Colorado 81501
MESA UNITED BANK
OF GRAND JUNCTION

⑈ 128051 ⑈ ⑈ 102100918⑈

000 0182⑈



Ralston Purina
Company

December 1, 1988

Office of Pacific Island and
Native American Programs (E-4)
U.S. EPA, Region IX
215 Fremont Street
San Francisco, CA 94105

Re: Samoa Packing Company, American Samoa
Ocean Dumping Permit No. OD 88-01 Research/88-02 Research

Dear Sir or Madam:

Please be advised that, effective November 15, 1988, Samoa Packing Company was sold to PT Mantrust, a privately-held Indonesian concern, and including Prudential-Bache Interfunding, Inc., the merchant banking arm of Prudential-Bache Securities, Inc.

Please continue to address facility related correspondence to the same people at the same addresses as before, using the previously described new company name, V.C.S. Samoa Packing Company.

Until you are advised otherwise, please direct legal matter correspondence to:

Robert E. Cattanach or
John C. Goodnow
Oppenheimer, Wolff & Donnelly
3400 Plaza VII
45 South 7th Street
Minneapolis, MN 55402

Thank you very much for your attention to this matter. Please advise of any questions. Thank you.

Sincerely,

RALSTON PURINA COMPANY

Frank H. Hackmann
Associate Counsel
314-982-2619

plp

cc R. E. Cattanach, Oppenheimer, Wolff & Donnelly
J. C. Goodnow, Oppenheimer, Wolff & Donnelly



Ralston Purina
Company

copy:
HARTNER (W-5-1)
COTTER (W-7-1)
ETTLINGER (RC-4)
NARVEZ (W-5-1)

August 17, 1988

Office of Pacific Island and
Native American Programs (E-4)
U.S. EPA, Region IX
215 Fremont Street
San Francisco, CA 94105

Re: Samoa Packing Company, American Samoa
Ocean Dumping Permit No. OD 88-01 Research/88-02 Research

Dear Sir:

Ralston Purina Company announced July 27, 1988 that it signed a definitive agreement to sell its Van Camp Seafood division to VCS Acquisition, Inc., a corporation controlled by a group of investors led by PT Mantrust, a privately-held Indonesian concern, and including Prudential-Bache Interfunding, Inc., the merchant banking arm of Prudential-Bache Securities, Inc.

Under the agreement, the assets of Samoa Packing Company will be transferred to the purchaser's designated wholly-owned subsidiary, VCS Samoa Packing Company. This transfer is expected to occur on or before September 30, 1988.

VCS Samoa Packing Company will formally assume the rights and obligations under the existing ocean dumping permit(s).

We trust this notification letter fulfills your requirements regarding automatic permit transfers and that this transfer will be effective at closing. As always, please advise of any questions you may have. Thank you.

Sincerely,

RALSTON PURINA COMPANY

Frank H. Hackmann
Associate Counsel
314-982-2619

plp
cc Robert Cattanaach, V.C.S. Holdings, Inc.
Roy Hall, Hall & Associates

Table III.1.b. SAMPAC Analyses of Sludge Ocean Dumped in American Samoa

Year	Months	pH	Bulk Density (gm/ml.)	TSS mg/l*	TP mg/l	TKN mg/l	BOD5 mg/l*	O&G mg/l*	TVS mg/l*	-NH3 mg/l*
1980	Oct-Dec	(No ocean dumping pending final site designation)								
1981	Jan-Mar	6.1	0.99	73.9	1	70	12.6	16.7		
	Apr-June	6.1	0.99	4.0	1	336	5.8	10.4		
	July-Sept	6.1	0.99	3.1	450	70	13.0	1.1		
	Oct-Dec	6.1	0.99	94.6	340	2,204	23.8	0.5		
1982	Jan-Mar	6.1	0.99	51.2	270	722	17.9	21.0		
	Apr-June	6.1	0.99	111.3	246	4,284	24.5	41.4		
	July-Sept	6.1	0.99	94.6	4,285x	1,057	62.9	0.0		
	Oct-Dec	6.1	0.99	133.9	645	1,722	63.3	46.0		
1983	Jan-Mar	6.1	0.99	103.2	480	2,744	83.4	56.0		
	Apr-June	5.6	1.00	1.0	555	1,526	78.1	14.1		
	July-Sept	5.7	0.99	112.4	182	5,684	84.4	44.4		
	Oct-Dec	6.1	1.01x	113.5	425	3,290	100.3	21.8		
1984	Jan-Mar	6.1	1.00	141.5	115	5,320	85.2	41.4		
	Apr-June	6.0	0.97	172.5	1,342	3,500	11.1	NA		
	July-Aug	5.1x	0.96	173.5	NA	NA	NA	76.6		
	Sept-Dec	Facility shut down								
1985	Jan-Feb	Facility shut down								
	Mar-May	NA	NA	49.9	NA	NA	NA	47.6		
	June-Aug	NA	NA	NA	NA	NA	NA	NA		
	Sept-Nov	NA	NA	156.6	NA	NA	NA	21.4		
	Dec	NA	NA	NA	NA	NA	NA	NA		
1986	Jan-Mar	5.8	NA	108.8	NA	NA	2.1	28.9		
	Apr-June	6.5	0.99	97.9	192	963	8.3	72.7		
	July-Sept	7.0	1.02	85.9	584	762	18.4	59.8		
	Oct-Dec	6.8	1.06	10.8	34	515	15.0	111.3		
1987	Jan-Mar	6.5	1.05	50.9	400	1,478	68.8	58.4		
	Apr	6.2	1.01	73.3	1,690	4,400	59.6	72.9	80.7	1.20
	May	6.0	1.07x	138.0	3,390x	4,200	75.6	42.6	110.0	1.31
	June	7.0	0.99	178.0	470	3,700	88.6	151.0x	169.0	0.95
	July	6.6	1.00	112.0	1,465	5,800	67.8	94.0	94.0	1.13
	Aug	6.4	1.00	117.0	150	3,612	33.3	40.6	106.0	0.41
	Sept	6.0	0.97	156.5	1,610	4,425	80.2	68.8	134.0	1.33
	Oct	5.7	1.00	106.3	1,880	7,760x	50.0	37.0	83.7	2.60
	Nov	5.9	0.95	135.0	1,258	4,232	8.1	5.9	120.0	0.98

Table III.1.b. (continued)

Year	Months	pH	Bulk Density (gm/ml)	TSS mg/l*	TP mg/l	TKN mg/l	BOD5 mg/l*	O&G mg/l*	TVS mg/l*	NH3 mg/l*
1988	Jan	5.4	1.00	75.8	1,375	2,700	20.2	13.0	64.2	0.85
	Feb	7.5x	0.95	146.0	620	1,558	62.6	92.5	136.0	5.55x
	Mar	5.5	1.00	261.0x	1,199	2,350	117.0	160.0x	245.0x	1.52
	Apr	6.6	0.96	135.5	676	1,910	87.0	77.5	126.0	1.20
	May	6.8	0.94	174.0	816	5,110	142.0x	130.0	164.0	0.88
	June	6.6	0.99	85.5	1,260	3,270	58.0	87.0	81.4	1.39
	July	6.4	0.90x	138.5	2,278	3,593	178.5x	155.0x	132.0	0.69
	Aug	6.4	0.91	53.5	1,174	4,500	75.0	42.5	51.0	0.82
	Sept	6.4	0.90x	107.9	1,354	3,940	92.8	98.5	106.5	0.68

ALL YEARS

Range - min	5.1	0.90	1.0	1	70	2.1	0.0	51.0	0.41
max	7.5	1.07	261.0	4,285	7,760	178.5	160.0	245.0	5.55
Average	6.2	0.99	106.1	949	2,952	57.6	56.9	117.9	1.38
Std. Dev.	0.5	0.04	53.8	927	1,851	40.9	43.0	44.7	1.14
Coeff. of variation	7.6%	3.7%	50.7%	97.7%	62.7%	70.9%	75.7%	37.9%	82.6%

* mg/l x 1,000

x Outliers, as defined by EPA Region IX (P. Cotter, pers. comm.) exceed average by ± 2 standard deviations of all values. Outliers were deleted from statistical calculations but are included in the range.

References for statistical calculations

- LOTUS Development Corp. 1985. Reference manual. Release 2. LOTUS Development Corp. Cambridge MA. 344 p.
- Pollard, J.H. 1977. A handbook of numerical and statistical techniques. Cambridge University Press. Cambridge, G.B. 349 p.
- Snedecor, G.W. 1956. Statistical methods. 5th ed. Iowa State College Press. Ames, Iowa. 534 p.
- Wonnacott, T.H. and R.J. Wonnacott. 1969. Introductory statistics. 3rd ed. John Wiley & Sons. New York. 650 p.

Table III.1.b. SAMPAC Analyses of Sludge Ocean Dumped in American Samoa

Year	Months	pH	Bulk Density (gm/ml)	TSS mg/l*	TP mg/l	TKN mg/l	BOD5 mg/l*	O&G mg/l*	TVS mg/l*	-NH3 mg/l*
1980	Oct-Dec	(No ocean dumping pending final site designation)								
1981	Jan-Mar	6.1	0.99	73.9	1	70	12.6	16.7		
	Apr-June	6.1	0.99	4.0	1	336	5.8	10.4		
	July-Sept	6.1	0.99	3.1	450	70	13.0	1.1		
	Oct-Dec	6.1	0.99	94.6	340	2,204	23.8	0.5		
1982	Jan-Mar	6.1	0.99	51.2	270	722	17.9	21.0		
	Apr-June	6.1	0.99	111.3	246	4,284	24.5	41.4		
	July-Sept	6.1	0.99	94.6	4,285x	1,057	62.9	0.0		
	Oct-Dec	6.1	0.99	133.9	645	1,722	63.3	46.0		
1983	Jan-Mar	6.1	0.99	103.2	480	2,744	83.4	56.0		
	Apr-June	5.6	1.00	1.0	555	1,526	78.1	14.1		
	July-Sept	5.7	0.99	112.4	182	5,684	84.4	44.4		
	Oct-Dec	6.1	1.01x	113.5	425	3,290	100.3	21.8		
1984	Jan-Mar	6.1	1.00	141.5	115	5,320	85.2	41.4		
	Apr-June	6.0	0.97	172.5	1,342	3,500	11.1	NA		
	July-Aug	5.1x	0.96	173.5	NA	NA	NA	76.6		
	Sept-Dec	Facility shut down								
1985	Jan-Feb	Facility shut down								
	Mar-May	NA	NA	49.9	NA	NA	NA	47.6		
	June-Aug	NA	NA	NA	NA	NA	NA	NA		
	Sept-Nov	NA	NA	156.6	NA	NA	NA	21.4		
	Dec	NA	NA	NA	NA	NA	NA	NA		
1986	Jan-Mar	5.8	NA	108.8	NA	NA	2.1	28.9		
	Apr-June	6.5	0.99	97.9	192	963	8.3	72.7		
	July-Sept	7.0	1.02	85.9	584	762	18.4	59.8		
	Oct-Dec	6.8	1.06	10.8	34	515	15.0	111.3		
1987	Jan-Mar	6.5	1.05	50.9	400	1,478	68.8	58.4		
	Apr	6.2	1.01	73.3	1,690	4,400	59.6	72.9	80.7	1.20
	May	6.0	1.07x	138.0	3,390x	4,200	75.6	42.6	110.0	1.31
	June	7.0	0.99	178.0	470	3,700	88.6	151.0x	169.0	0.95
	July	6.6	1.00	112.0	1,465	5,800	67.8	94.0	94.0	1.13
	Aug	6.4	1.00	117.0	150	3,612	33.3	40.6	106.0	0.41
	Sept	6.0	0.97	156.5	1,610	4,423	80.2	68.8	134.0	1.33
	Oct	5.7	1.00	106.3	1,880	7,760x	50.0	37.0	83.7	2.60
	Nov	5.9	0.95	135.0	1,258	4,232	8.1	5.9	120.0	0.98

Table III.1.b. (continued)

Year	Months	pH	Bulk Density (gm/ml)	TSS mg/l*	TP mg/l	TKN mg/l	BOD5 mg/l*	O&G mg/l*	TVS mg/l*	NH3 mg/l*
1988	Jan	5.4	1.00	75.8	1,375	2,700	20.2	13.0	64.2	0.85
	Feb	7.5x	0.95	146.0	620	1,558	62.6	92.5	136.0	5.55x
	Mar	5.5	1.00	261.0x	1,199	2,350	117.0	160.0x	245.0x	1.52
	Apr	6.6	0.96	135.5	676	1,910	87.0	77.5	126.0	1.20
	May	6.8	0.94	174.0	816	5,110	142.0x	130.0	164.0	0.88
	June	6.6	0.99	85.5	1,260	3,270	58.0	87.0	81.4	1.39
	July	6.4	0.90x	138.5	2,278	3,593	178.5x	155.0x	132.0	0.69
	Aug	6.4	0.91	53.5	1,174	4,500	75.0	42.5	51.0	0.82
	Sept	6.4	0.90x	107.9	1,354	3,940	92.8	98.5	106.5	0.68

ALL YEARS

Range - min	5.1	0.90	1.0	1	70	2.1	0.0	51.0	0.41
max	7.5	1.07	261.0	4,285	7,760	178.5	160.0	245.0	5.55
Average	6.2	0.99	106.1	949	2,952	57.6	56.9	117.9	1.38
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Coeff. of variation	7.6%	3.7%	50.7%	97.7%	62.7%	70.9%	75.7%	37.9%	82.6%

* mg/l x 1,000

x Outliers, as defined by EPA Region IX (P. Cotter, pers. comm.) exceed average by ± 2 standard deviations of all values. Outliers were deleted from statistical calculations but are included in the range.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

RE: Responses to Comments and Publication of Revised Draft
Special Ocean Dumping Permits for StarKist Samoa, Inc.
(OD 90-01) and VCS Samoa Packing Company, Inc. (OD 90-02)

Dear Interested Party:

The Environmental Protection Agency Region 9 has prepared responses to comments received on two draft special ocean dumping permits published on February 2, 1990 for VCS Samoa Packing Company, Inc. (OD 90-02) and StarKist Samoa, Inc. (OD 90-01) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing wastes off American Samoa. Several changes were made to the draft special permits as a result of the applicants' comments, including a request for authorization to use a new disposal vessel and an increase in the amount of VCS Samoa Packing Company's fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permits were made to the following sections:

- 1) The owner and identity of the disposal vessel were changed (page 1);
- 2) Corrections to typographical errors were made regarding the location and size of the disposal site (Special Condition 2.2);
- 3) Changes in the amount of fish processing wastes authorized for disposal were made (Special Conditions 2.3 and 2.4 of the VCS Samoa Packing Company permit only);
- 4) New waste stream parameter limits were calculated for each waste stream based on new data submitted by the applicants and limits for total solids were added (Special Condition 2.4.1);
- 5) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 6) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 7) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 8) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

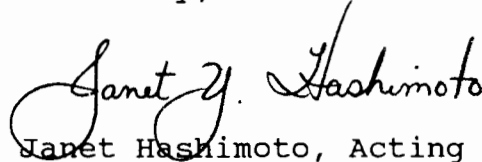
Our tentative decision is to issue revised draft special ocean dumping permit OD 90-02 to VCS Samoa Packing Company and OD 90-01 to StarKist Samoa for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes to be made to these permits, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permits. The public notice enclosed with this letter will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permits. The notice of correction enclosed with this letter will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also enclosed copies of the revised draft special permits, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

Information gathered during the term of the special permits, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA Region 9's

management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

A handwritten signature in cursive script that reads "Janet Y. Hashimoto". The signature is written in dark ink and is positioned above the printed name and title.

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

MEMORANDUM

SUBJECT: Responses to Comments and Publication of Revised Draft
Special Ocean Dumping Permits for StarKist Samoa, Inc.
(OD 90-01) and VCS Samoa Packing Company, Inc.
(OD 90-02)

FROM: Janet Hashimoto, Acting Chief *Janet Hashimoto*
Wetlands, Oceans and Estuaries Branch (W-7)

TO: Darrell Brown, Chief
Marine Permits and Monitoring Branch (WH-556F)
Office of Marine and Estuarine Protection

EPA Region 9 has prepared responses to comments received on two draft special ocean dumping permits published on February 2, 1990 for VCS Samoa Packing Company, Inc. (OD 90-02) and StarKist Samoa, Inc. (OD 90-01) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing wastes off American Samoa. Several changes were made to the draft special permits as a result of the applicants' comments, including a request for authorization to use a new disposal vessel and an increase in the amount of VCS Samoa Packing Company's fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permits were made to the following sections:

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- 4) New waste stream parameter limits were calculated for each waste stream based on new data submitted by the applicants and limits for total solids were added (Special Condition 2.4.1);
- 5) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 6) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 7) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 8) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

Our tentative decision is to issue revised draft special ocean dumping permit OD 90-02 to VCS Samoa Packing Company and OD 90-01 to StarKist Samoa for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes to be made to these permits, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permits. The public notice attached to this memorandum will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permits. The notice of correction attached to this memorandum will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also attached copies of the revised draft special permits, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

Information gathered during the term of the special permits, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA Region 9's

management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

If you have any questions regarding the foregoing, please contact me or have your staff contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Attachments



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

Norman Wei, Manager
Environmental Engineering
StarKist Seafood Company
180 East Ocean Boulevard
Long Beach, CA 90802-4797

RE: Response to Comments and Publication of Revised Draft
Special Ocean Dumping Permit (OD 90-01) for StarKist
Samoa, Inc.

Dear Mr. Wei:

The U.S. Environmental Protection Agency (EPA) Region 9 has prepared responses to comments received on StarKist Samoa's February 2, 1990 draft special ocean dumping permit (OD 90-01) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing wastes off American Samoa. Several changes were made to the draft special permit as a result of StarKist's comments, including a request for authorization to use a new disposal vessel, and VCS Samoa Packing Company's request for an increase in the amount of fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permit were made to the following sections:

- 1) The owner and identity of the disposal vessel were changed (page 1);
- 2) Corrections to typographical errors were made regarding the location and size of the disposal site (Special Condition 2.2);
- 3) New waste stream parameter limits were calculated for each waste stream based on new data submitted by StarKist and limits for total solids were added (Special Condition 2.4.1);
- 4) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 5) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 6) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 7) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

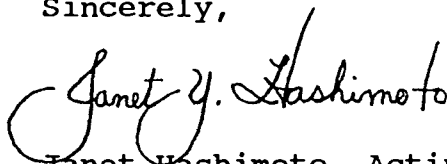
Our tentative decision is to issue the revised draft special ocean dumping permit OD 90-01 to StarKist Samoa for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permit. The public notice enclosed with this letter will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permit. The notice of correction enclosed with this letter will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also enclosed a copy of the revised draft special permit, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

Information gathered during the term of the special permit, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

Cooperative work between EPA Regional staff, representatives of StarKist and VCS Samoa Packing Company and expert advice from Dr. Dorothy Soule, Dr. Mickie Oguri and Dr. J.J. Lee has been productive over the many years spent in developing this permit.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,



Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures (5)

cc: Dyke Coleman, American Samoa EQC
Pati Faiai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Fred H. Avers, Van Camp Seafood Company
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Esq., Lillick & McHose
John Ciko, Esq., H.J. Heinz Co.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
1235 Mission Street
San Francisco, CA 94103

27 APR 1990

Fred H. Avers
Vice President and Director
Production Operations
Van Camp Seafood Company, Inc.
Boatman's Tower
100 North Broadway, Suite 900
St. Louis, Missouri 63102

RE: Response to Comments and Publication of Revised Draft
Special Ocean Dumping Permit (OD 90-02) for VCS Samoa
Packing Company, Inc.

Dear Mr. Avers:

The U.S. Environmental Protection Agency (EPA) Region 9 has prepared responses to comments received on VCS Samoa Packing Company's February 2, 1990 draft special ocean dumping permit (OD 90-02) to be issued under § 102 of the Marine Protection, Research and Sanctuaries Act and the Final Rule for designation of an ocean disposal site for fish processing waste off American Samoa. Several changes were made to the draft special permit as a result of VCS Samoa Packing Company's comments, including a request for authorization to use a new disposal vessel and an increase in the amount of fish processing waste materials to be disposed of at the designated ocean disposal site.

These changes were based primarily on the findings made in a computer modeling report prepared by SOS Environmental, Inc. and Environmental & Ocean Technology, Inc. entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," (March 1990). The Modeling Report responded to EPA Region 9's concerns about the increased amounts of fish processing wastes proposed for disposal, appropriate pumping rates and the identification of a disposal vessel track for the proposed vessel that would not cause the Limiting Permissible Concentration (LPC) at the designated ocean disposal site boundary to be exceeded for the range of current velocities occurring at the site. Consequently, revisions to the February 2, 1990 draft special permit were made to the following sections:

- 1) The owner and identity of the disposal vessel were changed (page 1);
- 2) Corrections to typographical errors were made regarding the location and size of the disposal site (Special Condition 2.2);
- 3) Changes in the amount of fish processing wastes authorized for disposal were made (Special Conditions 2.3 and 2.4),
- 4) New waste stream parameter limits were calculated for each waste stream based on new data submitted by VCS Samoa Packing Company and limits for total solids were added (Special Condition 2.4.1);
- 5) Changes were made to the distance that the disposal vessel must travel up current from the disposal site center (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5);
- 6) The dumping method and rate of dumping were changed (Special Condition 4.4);
- 7) A change was made to require plotting of the monitoring stations (Special Condition 7.1.1); and
- 8) A requirement for taking temperature measurements was added (Special Condition 7.2.6).

Our tentative decision is to issue the revised draft special ocean dumping permit OD 90-02 to VCS Samoa Packing Company for disposal of fish processing wastes into the Pacific Ocean off American Samoa for a three-year period. However, because of the extent of the changes, EPA Region 9 has determined that a new 30-day comment period is necessary to provide the public and governmental agencies with an opportunity to comment on the proposed revisions to the draft special permit. The public notice enclosed with this letter will be printed in the San Francisco Chronicle and the Samoa News to inform interested parties of the revisions that were made to the February 2, 1990 draft special permit. The notice of correction enclosed with this letter will also be published in the Federal Register to correct certain typographical errors made in the Final Rule for site designation. We have also enclosed a copy of the revised draft special permit, EPA Region 9's Responses to Comments and the Addendum to the Fact Sheet.

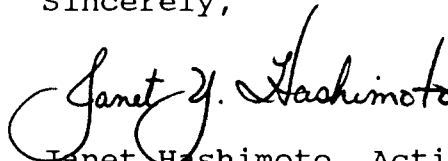
Information gathered during the term of the special permit, previous information gathered under ocean dumping permits OD 79-01, OD 79-02, OD 86-01, OD 87-01, OD 88-01 and OD 88-02, and the Modeling Report will be used to continue EPA's management of the fish processing waste disposal program off American Samoa. If at any time EPA Region 9 determines that the disposal

operations do not meet the ocean dumping regulations at 40 C.F.R. Parts 220 through 228, we will reconsider use of the designated site.

Cooperative work between EPA Regional staff, representatives of VCS Samoa Packing Company and StarKist Samoa, and expert advice from Dr. Dorothy Soule, Dr. Mickie Oguri and Dr. J.J. Lee has been productive over the many years spent in developing this permit.

If you have any questions regarding the foregoing, please contact Patrick Cotter, Regional Ocean Dumping Coordinator, at (415) 705-2162.

Sincerely,

A handwritten signature in black ink, reading "Janet Y. Hashimoto". The signature is fluid and cursive, with the first name "Janet" and the last name "Hashimoto" clearly legible. The middle initial "Y." is written in a smaller, more compact style.

Janet Hashimoto, Acting Chief
Wetlands, Oceans and Estuaries Branch
EPA Water Management Division

Enclosures (5)

cc: Dyke Coleman, American Samoa EQC
Pati Fai'ai, American Samoa EPA
Tautai A.F. Fa'alevao, American Samoa Attorney General
Maurice Callaghan, StarKist Samoa
Norman Wei, StarKist Seafoods
Gordon Stirling, VCS Samoa Packing Company
Thomas Redick, Esq., Lillick & McHose
John Ciko, Esq., H.J. Heinz Co.

NOTICE OF APPLICATION AND PROPOSED ACTION
by the
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION IX
1235 MISSION STREET
SAN FRANCISCO, CALIFORNIA 94103
(415) 705-2162

Revised Applications for Permits to Transport
and Dump Materials into Ocean Waters

Supplemental Public Notice for Ocean Dumping Permit Numbers
OD 90-01 and OD 90-02

Pursuant to § 102 of the Marine Protection, Research and Sanctuaries Act of 1972 (MPRSA), as amended (33 U.S.C. § 1401 et seq.) and 40 C.F.R. § 222.3 of EPA's Ocean Dumping Regulations and Criteria (42 Fed. Reg. 2462, Jan. 11, 1977), notice is hereby given by this office of revisions to two draft special permits for the transportation and disposal of fish processing wastes into ocean waters. EPA Region 9 published notices in the San Francisco Chronicle newspaper (February 6, 1990) and the Samoa News newspaper (February 2, 1990) to inform the public that complete applications to dispose of fish processing wastes were received from:

StarKist Foods, Inc.	and	Van Camp Seafood Company, Inc.
180 East Ocean Boulevard		Boatman's Tower
Long Beach, CA 90802		100 North Broadway, Suite 900
		St. Louis, MO 63102

on behalf of their respective subsidiary companies:

StarKist Samoa, Inc.	and	VCS Samoa Packing Company, Inc.
P.O. Box 368		P.O. Box 957
Pago Pago, AS 96799		Pago Pago, AS 96799

As reported in the newspaper public notices, StarKist Samoa and VCS Samoa Packing Company propose to ocean dump waste materials generated at their fish processing plants in Pago Pago, American Samoa. The materials to be disposed are fish processing wastes, consisting of DAF sludge, precooker water, and presswater. Based on the dilution levels expected at the dump site, the waste materials are not expected to cause significant long-term impacts to oceanic water quality, marine ecosystems or human health.

Subsequent to the publication of the newspaper notices, requests were made by the applicants during the comment period to make several revisions to the draft special permits. Both applicants requested a change in the disposal vessel. The new ship, the MV ASTRO, which will be used by both StarKist Samoa and VCS Samoa Packing Company, has a 200,000-gallon capacity, which will allow the applicants to dispose of more fish processing wastes on each trip to the disposal site. The former disposal

vessel, the MV MATAORA, had a disposal capacity of 24,000 gallons with a potential to carry 100,000 gallons. In addition, VCS Samoa Packing Company requested an increase in the amount of fish processing wastes authorized for disposal from a total of 56,900 gallons per day to a maximum of 200,000 gallons per day (see Table 1 below). No changes in the types of wastes proposed for disposal at the designated ocean disposal site were requested. VCS Samoa Packing Company's request was based on the need to facilitate compliance with its National Pollutant Discharge Elimination System (NPDES) permit issued under § 402 of the Clean Water Act. Upon learning of the applicants' requests, EPA Region 9 asked the applicants to conduct computer modeling to determine whether the additional fish processing wastes could be dumped by the new disposal vessel at the designated disposal site in compliance with EPA's ocean dumping criteria. (See 40 C.F.R. Parts 220-228). The Final Rule for site designation was published in the Federal Register (55 Fed. Reg. 3948, Feb. 6, 1990). No objections to the Final Rule were received.

SUMMARY OF INFORMATION AND TENTATIVE DETERMINATION

As requested, the applicants conducted computer modeling and submitted to EPA Region 9 a computer modeling report entitled, "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site off Tutuila Island, American Samoa," prepared by SOS Environmental, Inc. and Environmental and Ocean Technology, Inc., March 1990 (referred to as the Modeling Report). Based on our review of the Modeling Report, EPA Region 9 has made the tentative determination to issue a special ocean dumping permit to VCS Samoa Packing Company with a disposal limit of 200,000 gallons per day as specified in Table 1 and to issue special ocean dumping permits to both applicants with the authorization to use the disposal vessel the MV ASTRO. These tentative determinations to issue the special ocean dumping permits are based on EPA Region 9's conclusion that the proposed ocean disposal operations will comply with EPA's Ocean Dumping Criteria at 40 C.F.R. Parts 220-228, provided that certain other changes, as recommended by the Modeling Report, are made to the applicants' February 2, 1990 draft special permits. EPA intends to issue each of these special ocean dumping permits for a three-year period.

TABLE 1.

Waste Material	StarKist Samoa (gallons/day)	VCS Samoa Packing (gallons/day)	Total Permitted Discharge (gallons/day)
DAF Sludge	60,000	60,000	120,000
Precooker Water	100,000	100,000	200,000
Press Water	40,000	40,000	80,000
Total Maximum Daily Volume	200,000	200,000	400,000

The Modeling Report, which took into account the proposed increase in loadings of DAF sludge, precooker water and press water, demonstrated that the Limiting Permissible Concentration (LPC) for the fish processing wastes will be met at the dump site boundary notwithstanding the increased loadings, as long as certain other changes are made to the dumping operations. The Modeling Report concluded the following: 1) changes in vessel size and gallonage of the sludge tank made little change in the projections reported in the 1989 Final Environmental Impact Statement (FEIS); 2) an increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution; 3) the pumping rate should be restricted to 1,400 gallons per minute in the winter and 1,200 gallons per minute in the summer at a maximum speed of 10 knots in order to allow the waste plume to dilute within the dump site boundary and meet the LPC; and 4) the dumping path of 2.0 nautical miles should be centered about a location 1.1 nautical miles up current from the center of the dump site to meet the LPC at the dump site boundary.

EPA Region 9 reviewed the Modeling Report and agreed with virtually all of its conclusions. As a result of EPA Region 9's review of the Modeling Report and other information provided in the applicants' comments and monitoring data, the following changes were made to the February 2, 1990 draft special permits: 1) the owner and name of the disposal vessel were changed to "Pago Marine, Inc." and "MV ASTRO," respectively (page 1 of each permit); 2) increases in the amounts of fish processing wastes authorized for ocean disposal by VCS Samoa Packing Company were made from 56,900 gallons per day to 200,000 gallons per day, as set forth in Table 1 above (Special Conditions 2.3.1 and 2.4.1 of the VCS Samoa Packing Company permit only); 3) new limits were calculated for each regulated parameter for each waste stream to take into account three months of new data submitted by the applicants (Special Condition 2.4.1); 4) new limits were calculated for total solids for each waste stream based on new data submitted by the applicants (Special Condition 2.4.1); 5) the distance that the disposal vessel is required to travel up current from the disposal site center prior to the start of dumping operations was changed from 1.2 nautical miles to 1.1 nautical miles (Special Conditions 4.3.3, 4.3.5.2, 7.1.4.1 and 7.1.4.5); 6) the dumping method was changed from requiring disposal to take place in a circular pattern pumped at 140 gallons per minute per knot to disposal in a 2.0 nautical mile line pumped at 140 gallons per minute per knot in the winter and at 120 gallons per minute per knot in the summer, not to exceed a vessel speed of 10 knots (Special Condition 4.4); 7) a requirement was added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment; and 8) a requirement for taking temperature measurements was added to the monitoring program (Special Condition 7.2.6).

In addition, two typographical errors were detected and corrected. The diameter of the site was erroneously stated to be 1.5 nautical miles in the February 2, 1990 draft special permits. In actuality, the radius of the disposal site is 1.5 nautical miles (Special Condition 2.2). The longitude of the disposal site center was corrected in both revised draft special permits and the Final Rule to reflect the coordinate published in the Final Environmental Impact Statement, i.e. 170° 38.30' West longitude (Special Condition 2.2).

With these changes to the draft special permits, the proposed ocean dumping of fish processing wastes during the term of the permits is expected to meet EPA's ocean dumping criteria and have a minimal adverse impact on human health and/or the environment. We believe based on our analysis that, notwithstanding the changes made to the draft special permits today, the Agency's ocean dumping criteria (40 C.F.R. Parts 227 and 228) will be met at the 1,500-fathom (9,000 feet) site, located at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. For further information on the designated site, see the Final Rule, 55 Fed. Reg. 3948 (Feb. 6, 1990), the recent technical corrections to the Final Rule to be published in the Federal Register, and the Final Environmental Impact Statement issued in March, 1989.

INITIATION OF HEARINGS AND PUBLIC COMMENTS

Within 30 days of the date of this notice, any person may request a public hearing to consider the issuance of, or the conditions to be imposed upon, these permits. Any such request for a public hearing must: 1) be in writing; 2) identify the person requesting the hearing; 3) state any objections to the issuance of, or to the conditions to be imposed upon, these permits; and 4) state the issues which are proposed to be considered at the hearing. Under 40 C.F.R § 222.4, the Regional Administrator's determination on whether or not to hold a public hearing shall be based on whether the request presents genuine issues of policy or facts amenable to resolution by public hearing.

In order to avoid delay in the issuance of these permits, EPA Region 9 has tentatively scheduled a public hearing in Pago Pago, American Samoa, on June 7, 1990 at the office of the American Samoa Environmental Protection Agency at 4:00 p.m. However, this hearing will only be held if a specific request is received by the deadline and a determination is made by the EPA Regional Administrator to hold such a hearing. Persons interested in attending the public hearing should check with the person identified below as to whether the public hearing will be held.

Comments on the tentative determination may be submitted in writing within 30 days of the date of publication of this notice to:

Mr. Patrick Cotter
U.S. Environmental Protection Agency
Region IX (W-7-1)
1235 Mission Street
San Francisco, California 94103
Telephone (415) 705-2162

All comments received within 30 days of the date of publication of this notice will be considered in the formulation of final determinations on the special permits.

The Administrative Record, which includes the applications, supporting documentation, the February 2, 1990 draft special permits, the Fact Sheet, the revised draft special permits noticed today, the Addendum to the Fact Sheet, the Modeling Report and other documents, is available for public review Monday through Friday from 9:00 a.m. to 4:00 p.m. at: 1) the EPA Region 9 Library, 1235 Mission Street, Basement Floor, San Francisco, California, (415) 556-6597; 2) the EPA Pacific Island Contact Office, 300 Ala Moana Boulevard, Room 1302, Honolulu, Hawaii, (808) 541-2710; and 3) the American Samoa Environmental Protection Agency, Office of the Governor, Pago Pago, American Samoa, (684) 633-2304.

EPA REGION 9 RESPONSES TO COMMENTS ON
VCS SAMOA PACKING COMPANY'S SPECIAL OCEAN DUMPING PERMIT OD 90-02

COMMENTER A: Mr. John Enright, for the Board of Directors, Le Vaomatua, Pago Pago, American Samoa.

Comment 1. Based on the draft special ocean dumping permit published on February 2, 1990, Le Vaomatua fully supports the final site designation.

Response 1. EPA Region 9 appreciates the support of American Samoa's non-governmental environmental organization. The Final Rule for site designation was published in the Federal Register on February 6, 1990 (55 Fed. Reg. 3948). No objections were received on the Final Rule. The ocean disposal site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. A Final Environmental Impact Statement was issued in March 1989. See Response C.1 regarding corrections of typographical errors to the Final Rule and Response E.5 regarding corrections of typographical errors to the draft special permit.

Comment 2. A buoy should be anchored at the center of the disposal site to facilitate strict compliance with procedures for establishing the exact coordinates of the disposal site by the disposal vessel prior to discharge.

Response 2. EPA Region 9 is satisfied that the requirements set forth in the draft special permit are sufficient to compel the permittee to accurately fix the dump site position. Special Condition 4.5 of the draft special permit requires the permittee to use an onboard electronic positioning system. Special Condition 4.7 of the draft special permit requires the permittee to document where the disposal vessel dumps the fish processing wastes. Special Condition 6.1.3 of the draft special permit authorizes representatives of the American Samoa Environmental Protection Agency and the U.S. Coast Guard Liaison Officer to accompany the disposal vessel as shipriders at the regulatory agencies' option. In addition, a requirement has been added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment. We believe that these requirements are sufficient to document compliance with the special permit conditions. Moreover, research permit records show that the disposal vessel has remained within the disposal site. Therefore, we have decided not to require the permittee to place a marker buoy in the water, which is over 9,000 feet deep. We responded similarly to a request from the Western Pacific Regional Fishery Management Council in a letter dated March 20, 1990 (see Enclosure 1).

COMMENTER B: Dr. E.C. Fullerton, Regional Director, Southwest Region, National Marine Fisheries Service, Terminal Island, California.

Comment 1. The National Marine Fisheries Service (NMFS) supports the designation of the 1,500-fathom ocean disposal site off American Samoa for disposal of fish processing wastes. No objections were made to the issuance of the February 2, 1990 draft special ocean dumping permit or to the Final Rule for the designated disposal site published in the Federal Register on February 6, 1990.

Response 1. EPA Region 9 appreciates the support and comments from the NMFS during the permitting and site designation process.

COMMENTER C: Dr. Dorothy Soule, Vice President and General Manager, SOS Environmental, Inc., Los Angeles, California.

Comment 1. A typographical error was found on page 16, line 2 of the Final Rule for designation of an ocean disposal site published in the Federal Register on February 6, 1990. The Final Rule states that the longshore current is between Pago Pago Harbor and the southeastern end of the island. The current actually flows between Pago Pago Harbor and the southwestern end of the island.

Response 1. This and the other corrections of typographical errors (see Response E.5) will be published in the Federal Register. A copy of the notice to be published will be mailed to EPA Region 9's mailing list for the American Samoa fish processing waste program.

COMMENTER D: Ms. Kitty M. Simonds, Executive Director, Western Pacific Regional Fishery Management Council, Honolulu, Hawaii.

Comment 1. The Western Pacific Regional Fishery Management Council (WPRFMC) is pleased with EPA Region 9's decision to designate the 1,500-fathom ocean disposal site for disposal of fish processing wastes and to adopt recommendations 2, 3, and 4 made in the WPRFMC's May 23, 1989 letter.

Response 1. EPA Region 9 appreciates the support and comments from the WPRFMC during the permitting and site designation process.

Comment 2. WPRFMC recommends that a permanent, lighted buoy be placed at the center of the new disposal site.

Response 2. See Response A.2 and Enclosure 1.

COMMENTER E: Mr. Thomas P. Redick, Esq., Lillick & McHose, (on behalf of VCS Samoa Packing Company), San Diego, California.

Comment 1. VCS Samoa Packing Company (VCS) requested that the amount of material authorized for discharge be revised to allow disposal of: 60,000 gallons per day of dissolved air flotation sludge (DAF), 100,000 gallons per day of precooker water, and 40,000 gallons per day of press water, for a maximum of 200,000 gallons per day. Normal disposal operations require about 100,000 gallons per day; however, VCS requested authorization to dispose of an additional 100,000 gallons per day if an emergency occurs.

At EPA Region 9's request, a report was prepared by the applicant's contractor entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site Off Tutuila Island, American Samoa," SOS Environmental, Inc. and Environmental and Ocean Technology, Inc. (March 1990) (referred to as the "Modeling Report"). The Modeling Report demonstrates that 200,000 gallons of fish processing wastes can be discharged in one trip using the new vessel, the MV ASTRO (see Comment and Response E.2 below), without exceeding the Limiting Permissible Concentration (LPC) (see 40 C.F.R. § 227.27) of the disposal site, as long as the discharge operations comply with the limitations discussed in the Modeling Report (see Comment E.3 below). If VCS and StarKist Samoa each discharged 200,000 gallons on the same day, two separate trips would be required.

Response 1. The draft special permit published on February 2, 1990 reflects the amount of fish processing wastes requested for disposal by VCS in its application letter dated December 2, 1988. These amounts were: 31,400 gallons per day of DAF sludge, 13,300 gallons per day of precooker water, and 12,200 gallons per day of press water, for a total of 56,900 gallons per day (see Special Condition 2.3 of the February 2, 1990 draft special permit). VCS has now asked to dispose of increased volumes of its fish processing wastes to facilitate compliance with its National Pollutant Discharge Elimination System (NPDES) permit issued under § 402 of the Clean Water Act. VCS intends to divert a portion of its point source discharge from Pago Pago Harbor to a vessel for ocean disposal. The newly-requested amounts equal 1.91 times more DAF sludge, 7.52 times more precooker water, 3.28 times more press water and 3.52 times more total daily disposal than originally requested. StarKist Samoa's draft special permit, also published on February 2, 1990, provides for disposal of a total of 200,000 gallons per day of the fish processing wastes described above. StarKist Samoa did not request any increases in the amount of fish processing wastes proposed for disposal. EPA Region 9 agrees that if each applicant discharged 200,000 gallons on the same day, the MV ASTRO would have to make two separate trips.

To determine whether the LPC would be met notwithstanding the requested increase in disposal quantities and requested changes in the disposal vessel, EPA Region 9 asked the applicants (VCS and StarKist Samoa) to have their consultant run a plume dispersal model for a range of variables, including changes in barge size, rate of discharge, disposal patterns, and current velocities. The applicants' consultant ran the plume dispersion model using the assumptions, as requested.

EPA Region 9's evaluation of VCS's request is based on a review of the Modeling Report, which was submitted as part of VCS's comments on its February 2, 1990 draft special permit. The Modeling Report stated that 400,000 gallons per day (200,000 gallons for VCS and 200,000 gallons for StarKist Samoa) could be disposed of without exceeding the LPC at the designated disposal site boundary, but only when certain assumptions used in the modeling runs were met (see Comment E.3 below). Based on the modeling results demonstrating that under certain circumstances the LPC would not be exceeded at the site boundary, EPA Region 9 changed certain aspects of the disposal operations in the revised draft special permit (see discussion in Response E.3 below). Having made these changes to the disposal operation, EPA Region 9 intends to authorize the increased amounts of fish processing wastes to be disposed of at the designated site, as requested by VCS.

Comment 2. VCS requested that the designated waste transporter be changed to the MV ASTRO, which has a 200,000-gallon capacity. The vessel is owned by Pago Marine, Inc.

Response 2. To accommodate the increased ocean disposal volumes arising out of the elimination of certain high strength waste streams from VCS' point source discharges in Pago Pago Harbor, the waste disposal vessel has been changed from the MV MATAORA, owned by Silk and Boyd, to the MV ASTRO, owned by Pago Marine, Inc. Both VCS and StarKist Samoa will be using this vessel. After reviewing the Modeling Report, EPA Region 9 has determined that the change in the size of the disposal vessel would have a negligible effect on the ability of the disposal operations to meet the LPC.

Comment 3. VCS quoted the conclusions of the Modeling Report to support its contention that the requested changes in volume and the size of the disposal vessel would not cause the LPC to be exceeded at the disposal site boundary. The Modeling Report conclusions are:

- a. Changes in vessel size, either increase or decrease, and increase in gallonage of the sludge tank capacity made little change in the projections reported in FEIS (1989).

b. An increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution.

c. If the waste disposal ship travels in a waste discharging path that will result in an initial plume width anywhere between 1.5 n mi and 2.0 n mi, a pumping rate of 1400 gpm can be used in the winter season for the discharge of the fish waste. The plume with dilution reaching LPC will remain within the 3 n mi diameter dumpsite with currents up to 0.8 knots.

d. In the summer, the diluted plume reaching LPC will remain within the 3 n mi diameter site with current up to 0.8 knots if the waste dump path is 2.0 n mi and the pumping rate does not exceed 1200 gpm. (This would require an additional 23.8 minutes for complete dumping of the 200,000 gallons as compared with the 1400 gpm pumping rate).

e. The range of current velocities measured by actual movement of the waste field was 0.06 to 0.68 knots with a mean of 0.34 knots. The computer simulated current covers 0.2-0.8 knots. This should cover any contingency for conditions under which the waste vessel would dump.

f. The proposed center of the dumpsite, as described in the FEIS (1989), is located at 14°24.00'S by 170°38.30'W as was approved. The dumpsite is a circle with a diameter of 3 n mi. To achieve the initial dump path (L) of 2.0 n mi, the path should be located at a vertical distance of 1.1 n mi up current from the center of the dumpsite.

g. Gathering of further temperature data might provide information on the range of diffusion coefficients which could perhaps allow an increase in the pumping rate for the summer at the preferred site. Winter is presently defined as June through November and summer is defined as December through May (FEIS, 1989).

h. If the dumpsite were enlarged to 5 n mi at a future date, a pumping rate of 1400 gpm could be used in winter and summer to achieve the LPC dilution at the dumpsite boundary.

Response 3. EPA Region 9 has reviewed the Modeling Report and has determined that in order for the plume to stay within the disposal site boundary, the waste transporter's disposal track must be adjusted from a circle with a radius of 0.2 nautical miles to a line 2.0 nautical miles in length. Although the Modeling Report recommended use of an ellipse of undefined dimensions, EPA Region 9 has specified a line for the disposal track to simplify navigation and disposal operations. This revision, coupled with the new vessel and pumping rates selected,

will permit dilution of the waste plume within the designated disposal site, and, according to the Modeling Report, will permit disposal operations to comply with the LPC.

After EPA Region 9's review of the Modeling Report, we believe that the limitations on the disposal rates of 1,200 gallons per minute in the summer and 1,400 gallons per minute in the winter at a maximum speed of 10 knots will reasonably ensure that the LPC will be met during the winter (June through November) and summer (December through May) periods. Based on the computer modeling results set forth in the Modeling Report, the disposal operations contained in Special Condition 4 of the draft special permit have been revised as follows:

Special Condition 4.3.3. The starting point of the disposal operation was changed from a location "1.2 nautical miles up current from the center of the disposal site. . ." to "1.1 nautical miles up current from the center of the disposal site. . ." This was the point determined in the Modeling Report to provide for a 2.0 nautical mile disposal vessel track within the dump site. Conforming changes were made to Special Conditions 4.3.5.2, 7.1.4.1 and 7.1.4.5 regarding the starting point of the disposal operation.

Special Condition 4.4. The original language contained in the section entitled Disposal Rate and Vessel Speed was replaced with the following:

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

Based on the recommendations of the applicant's modeler, the applicant will be required, as part of the permit's monitoring requirements, to take temperature measurements at the starting point of the disposal operation. The following section therefore has been added to Appendix A:

Special Condition 7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

As part of EPA Region 9's continuing site evaluation process, after disposal operations commence under the new special ocean dumping permit, we will determine whether the disposal operations are actually meeting the criteria defined at 40 C.F.R. § 228.10. If these criteria cannot be met, then we may change the disposal site (see 40 C.F.R. § 228.11), or revise the special ocean dumping permit (see 40 C.F.R. Part 223). Any additional changes to the permit which would necessitate a change in the designated disposal site must be formally requested in a revised permit application.

Comment 4. VCS requested that the requirement for analysis of waste material be changed from monthly to twice yearly based on its conclusion that its waste streams do not vary significantly.

Response 4. EPA Region 9 disagrees with the statement that the waste streams do not vary significantly. All of VCS's research ocean dumping permit data for waste streams collected from March 1987 to the present show extreme variability, including large standard deviations and many outliers. The wide variation in data is the principal reason that EPA Region 9 requested a complete report on VCS's waste stream analyses conducted as part of the research permit program. EPA Region 9 will not reduce the frequency of monitoring or the requirements for monitoring as set forth in the draft special permit published on February 2, 1990.

Comment 5. Typographical errors were found in Special Condition 2.2 of the permit. The size of the designated dump site should be 1.5 nautical miles in radius not 1.5 nautical miles in diameter. The correct coordinates should be 14° 24.00' South latitude by 170° 38.30' West longitude, not 14° 24.00' South latitude by 170° 38.20' West longitude.

Response 5. EPA Region 9 agrees that these were both typographical errors and they have been corrected in the revised draft special permit (see also Comment and Response C.1).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

Enclosure 1

20 MAR 1990

Ms. Kitty Simonds
Western Pacific Regional
Fishery Management Council
1164 Bishop Street, Suite # 1405
Honolulu, HI 96813

RE: Comments on the Fish Cannery Waste Disposal Permits for
America Samoa.

Thank you for your letter February 22, 1990 with comments on
designation of an ocean disposal site off America Samoa and Mr.
Justin Rutka's February 28, 1990 letter requesting a copy of the
Federal Register Final Rule.

EPA has determined that a buoy will not be required to mark
the center of the new disposal site. Navigation to the site will
be accomplished by radar which has been successfully used in the
research permits. The special permits contain provisions for
plotting the disposal operation each time a dump is made. We
will enforce this permit condition to ensure that disposal
complies with it.

As requested, I have enclosed a copy of the Federal Register
notice for the American Samoa disposal site Final Rule. If you
have any questions please contact Patrick Cotter at (415) 705-
2162.

Sincerely,

A handwritten signature in cursive script that reads "Janet Hashimoto".

Janet Hashimoto, Chief
Oceans and Estuaries Section (W-7-1)

Enclosure

cc: John Naughton, NMFS
Ernest Kosaka, USFWS
Pati Faiai, ASEPA
Norman Wei, Star-Kist Foods
James Cox, VCS Samoa Packing

EPA REGION 9 RESPONSES TO COMMENTS ON
STARKIST SAMOA INC.'S SPECIAL OCEAN DUMPING PERMIT OD 90-01

COMMENTER A: Mr. John Enright, for the Board of Directors, Le Vaomatua, Pago Pago, American Samoa.

Comment 1. Based on the draft special ocean dumping permit published on February 2, 1990, Le Vaomatua fully supports the final site designation.

Response 1. EPA Region 9 appreciates the support of American Samoa's non-governmental environmental organization. The Final Rule for site designation was published in the Federal Register on February 6, 1990 (55 Fed. Reg. 3948). No objections were received on the Final Rule. The ocean disposal site is located in 1,502 fathoms of water at 14° 24.00' South latitude by 170° 38.30' West longitude with a radius of 1.5 nautical miles. A Final Environmental Impact Statement was issued in March 1989. See Response C.1 regarding corrections of typographical errors to the Final Rule and Response E.5 regarding corrections of typographical errors to the draft special permit.

Comment 2. A buoy should be anchored at the center of the disposal site to facilitate strict compliance with procedures for establishing the exact coordinates of the disposal site by the disposal vessel prior to discharge.

Response 2. EPA Region 9 is satisfied that the requirements set forth in the draft special permit are sufficient to compel the permittee to accurately fix the dump site position. Special Condition 4.5 of the draft special permit requires the permittee to use an onboard electronic positioning system. Special Condition 4.7 of the draft special permit requires the permittee to document where the disposal vessel dumps the fish processing wastes. Special Condition 6.1.3 of the draft special permit authorizes representatives of the American Samoa Environmental Protection Agency and the U.S. Coast Guard Liaison Officer to accompany the disposal vessel as shipriders at the regulatory agencies' option. In addition, a requirement has been added to Special Condition 7.1 requiring that all sampling stations be plotted during monitoring cruises using appropriate navigational equipment. We believe that these requirements are sufficient to document compliance with the special permit conditions. Moreover, research permit records show that the disposal vessel has remained within the disposal site. Therefore, we have decided not to require the permittee to place a marker buoy in the water, which is over 9,000 feet deep. We responded similarly to a request from the Western Pacific Regional Fishery Management Council in a letter dated March 20, 1990 (see Enclosure 1).

COMMENTER B: Dr. E.C. Fullerton, Regional Director, Southwest Region, National Marine Fisheries Service, Terminal Island, California.

Comment 1. The National Marine Fisheries Service (NMFS) supports the designation of the 1,500-fathom ocean disposal site off American Samoa for disposal of fish processing wastes. No objections were made to the issuance of the February 2, 1990 draft special ocean dumping permit or to the Final Rule for the designated site published in the Federal Register on February 6, 1990.

Response 1. EPA Region 9 appreciates the support and comments from the NMFS during the permitting and site designation process.

COMMENTER C: Dr. Dorothy Soule, Vice President and General Manager, SOS Environmental, Inc., Los Angeles, California.

Comment 1. A typographical error was found on page 16, line 2 of the Final Rule for designation of an ocean disposal site published in the Federal Register on February 6, 1990. The Final Rule states that the longshore current is between Pago Pago Harbor and the southeastern end of the island. The current actually flows between Pago Pago Harbor and the southwestern end of the island.

Response 1. This and the other corrections of typographical errors (see Response E.1) will be published in the Federal Register. A copy of the notice to be published will be mailed to EPA Region 9's mailing list for the American Samoa fish processing waste program.

COMMENTER D: Ms. Kitty M. Simonds, Executive Director, Western Pacific Regional Fishery Management Council, Honolulu, Hawaii.

Comment 1. The Western Pacific Regional Fishery Management Council (WPRFMC) is pleased with EPA Region 9's decision to designate the deeper ocean disposal site for disposal of fish processing wastes and to adopt recommendations 2, 3, and 4 made in the WPRFMC's May 23, 1989 letter.

Response 1. EPA Region 9 appreciates the support and comments from the WPRFMC during the permitting and site designation process.

Comment 2. WPRFMC recommends that a permanent, lighted buoy be placed at the center of the new disposal site.

Response 2. See Response A.2 and Enclosure 1.

COMMENTER E: Mr. Norman Wei, StarKist Seafood Company (on behalf of StarKist Samoa, Inc.), Long Beach, California.

Comment 1. Typographical errors were found in Special Condition 2.2 of the permit. The size of the designated dump site should be 1.5 nautical miles in radius not 1.5 nautical miles in diameter. The correct coordinates should be 14° 24.00' South latitude by 170° 38.30' West longitude, not 14° 24.00' South latitude by 170° 38.20' West longitude.

Response 1. EPA Region 9 agrees that these were both typographical errors and they have been corrected in the revised draft special permit (see also Comment and Response C.1).

Comment 2. The quantities of fish processing wastes authorized in the draft special permit are exactly the same as those originally requested.

Response 2. Comment noted, no response required.

Comment 3. The designated waste transporter will be the MV ASTRO, which has a 200,000 gallon capacity. The vessel is owned by Pago Marine, Inc. StarKist Samoa asked that it be allowed sufficient flexibility to select a waste transporter within the parameters of the March 1990 computer modeling report for any future changes in the waste transport vessel. The cited computer modeling report, prepared by StarKist Samoa's contractor and submitted as part of its comments, is entitled: "Mathematical/Computer Modeling of Fish Waste Disposal at an Ocean Disposal Site Off Tutuila Island, American Samoa," SOS Environmental, Inc. and Environmental and Ocean Technology, Inc. (March 1990) (referred to as the Modeling Report).

Response 3. To accommodate StarKist Samoa's permitted amount of 200,000 gallons per day and the increased disposal volume of 200,000 gallons per day requested by VCS Samoa Packing Company, the waste disposal vessel has been changed from the MV MATAORA, owned by Silk and Boyd, to the MV ASTRO, owned by Pago Marine, Inc. Both VCS Samoa Packing Company and StarKist Samoa will be using this vessel. After reviewing the Modeling Report, EPA Region 9 has determined that the change in the size of the disposal vessel would have a negligible effect on the ability of the disposal operations to meet the Limiting Permissible Concentration (LPC), as defined at 40 C.F.R. § 227.27.

Permit applicants are required to receive EPA approval for a proposed waste transporter as part of a Marine Protection, Research and Sanctuaries Act (MPRSA) § 102 permit, defined at 40 C.F.R. § 221.1(b). Therefore, if StarKist Samoa wishes to change the waste transporter in the future, it must obtain prior approval from EPA Region 9.

Comment 4. StarKist Samoa quoted the conclusions of the Modeling Report, which provide the additional information requested by EPA Region 9 to demonstrate that the new, larger disposal vessel and the increase in the dumping volume requested by VCS Samoa Packing Company will not cause the LPC to be exceeded at the disposal site boundary. The Modeling Report conclusions are:

a. Changes in vessel size, either increase or decrease, and increase in gallonage of the sludge tank capacity made little change in the projections reported in FEIS (1989).

b. An increase in the initial width of the plume (length of the dump path) will result in an increase in mixing and dilution of the waste plume thereby achieving acceptable dilution.

c. If the waste disposal ship travels in a waste discharging path that will result in an initial plume width anywhere between 1.5 n mi and 2.0 n mi, a pumping rate of 1400 gpm can be used in the winter season for the discharge of the fish waste. The plume with dilution reaching LPC will remain within the 3 n mi diameter dumpsite with currents up to 0.8 knots.

d. In the summer, the diluted plume reaching LPC will remain within the 3 n mi diameter site with current up to 0.8 knots if the waste dump path is 2.0 n mi and the pumping rate does not exceed 1200 gpm. (This would require an additional 23.8 minutes for complete dumping of the 200,000 gallons as compared with the 1400 gpm pumping rate).

e. The range of current velocities measured by actual movement of the waste field was 0.06 to 0.68 knots with a mean of 0.34 knots. The computer simulated current covers 0.2-0.8 knots. This should cover any contingency for conditions under which the waste vessel would dump.

f. The proposed center of the dumpsite, as described in the FEIS (1989), is located at 14°24.00'S by 170°38.30'W as was approved. The dumpsite is a circle with a diameter of 3 n mi. To achieve the initial dump path (L) of 2.0 n mi, the path should be located at a vertical distance of 1.1 n mi up current from the center of the dumpsite.

g. Gathering of further temperature data might provide information on the range of diffusion coefficients which could perhaps allow an increase in the pumping rate for the summer at the preferred site. Winter is presently defined as June through November and summer is defined as December through May (FEIS, 1989).

h. If the dumpsite were enlarged to 5 n mi at a future date, a pumping rate of 1400 gpm could be used in winter and summer to achieve the LPC dilution at the dumpsite boundary.

Response 4. To determine whether the LPC would be met notwithstanding the change in the size and capacity of the disposal vessel and VCS Samoa Packing Company's requested increase in disposal quantities, EPA Region 9 asked the applicants (VCS Samoa Packing Company and StarKist Samoa) to have their consultant run a plume dispersal model for a range of variables, including changes in disposal vessel size, rate of discharge, disposal patterns, and current velocities. The applicants' consultant ran the plume dispersion model using the assumptions, as requested. The Modeling Report indicates that 200,000 gallons of fish processing wastes can be discharged in one trip using the new vessel, the MV ASTRO (see Comment and Response E.3 above), without exceeding the LPC of the disposal site, as long as the discharge operations comply with the limitations discussed in the Modeling Report (see Comment E.4 above).

EPA Region 9 has determined that in order for the plume to stay within the disposal site boundary, the waste transporter's disposal track must be adjusted from a circle with a radius of 0.2 nautical miles to a line 2.0 nautical miles in length. Although the Modeling Report recommended use of an ellipse of undefined dimensions, EPA Region 9 has specified a line for the disposal track to simplify navigation and disposal operations. This revision, coupled with the new vessel and pumping rates selected, will permit dilution of the waste within the designated disposal site, and, according to the Modeling Report, will permit disposal operations to comply with the LPC.

After EPA Region 9's review of the Modeling Report, we believe that the limitations on the disposal rates of 1,200 gallons per minute in the summer and 1,400 gallons per minute in the winter at a maximum speed of 10 knots will reasonably ensure that the LPC will be met during the winter (June through November) and summer (December through May) periods. Based on the computer modeling results set forth in the Modeling Report, the disposal operations contained in Special Condition 4 of the draft special permit have been revised as follows:

Special Condition 4.3.3. The starting point of the disposal operation was changed from a location "1.2 nautical miles up current from the center of the disposal site. . ." to "1.1 nautical miles up current from the center of the disposal site. . ." This was the point determined in the Modeling Report to provide for a 2.0 nautical mile disposal vessel track within the dump site. Conforming changes were also made to Special Conditions 4.3.5.2, 7.1.4.1 and 7.1.4.5 regarding the starting point of the disposal operation.

Special Condition 4.4. The original language contained in the section entitled Disposal Rate and Vessel Speed was replaced with the following:

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

Based on the recommendations of the applicant's modeler, the applicant will be required, as part of the special permit's monitoring requirements, to take temperature measurements at the starting point of the disposal operation. The following section therefore has been added to Appendix A:

Special Condition 7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

As part of EPA Region 9's continuing site evaluation process, after disposal operations commence under the new special ocean dumping permit, we will determine whether the disposal operations are actually meeting the criteria defined at 40 C.F.R. § 228.10. If these criteria cannot be met, then we may change the disposal site (see 40 C.F.R. § 228.11), or revise the special ocean dumping permit (see 40 C.F.R. Part 223). Any additional changes to the permit which would necessitate a change in the designated disposal site must be formally requested in a revised permit application.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

Enclosure 1

20 MAR 1990

Ms. Kitty Simonds
Western Pacific Regional
Fishery Management Council
1164 Bishop Street, Suite # 1405
Honolulu, HI 96813

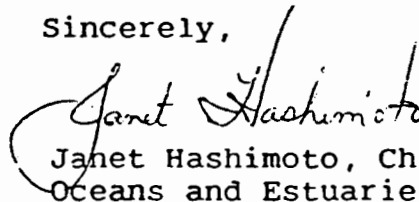
RE: Comments on the Fish Cannery Waste Disposal Permits for
America Samoa.

Thank you for your letter February 22, 1990 with comments on designation of an ocean disposal site off America Samoa and Mr. Justin Rutka's February 28, 1990 letter requesting a copy of the Federal Register Final Rule.

EPA has determined that a buoy will not be required to mark the center of the new disposal site. Navigation to the site will be accomplished by radar which has been successfully used in the research permits. The special permits contain provisions for plotting the disposal operation each time a dump is made. We will enforce this permit condition to ensure that disposal complies with it.

As requested, I have enclosed a copy of the Federal Register notice for the American Samoa disposal site Final Rule. If you have any questions please contact Patrick Cotter at (415) 705-2162.

Sincerely,


Janet Hashimoto, Chief
Oceans and Estuaries Section (W-7-1)

Enclosure

cc: John Naughton, NMFS
Ernest Kosaka, USFWS
Pati Faiai, ASEPA
Norman Wei, Star-Kist Foods
James Cox, VCS Samoa Packing



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Enclosure 1

20 MAR 1990

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Fishery Management Council
1164 Bishop Street, Suite # 1405
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Sincerely,

A handwritten signature in cursive script, reading "Janet Hashimoto", is written over a circular stamp. The stamp contains the text "Janet Hashimoto, Chief" and "Oceans and Estuaries Section (W-7-1)".

Janet Hashimoto, Chief
Oceans and Estuaries Section (W-7-1)

Enclosure

cc: John Naughton, NMFS
Ernest Kosaka, USFWS
Pati Faiai, ASEPA
Norman Wei, Star-Kist Foods
James Cox, VCS Samoa Packing

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-01 Special

EFFECTIVE DATE: _____, 1990

EXPIRATION DATE: _____, 1993

PERMITTEE: StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

WASTE GENERATOR: StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

WASTE GENERATED AT: StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Pago Marine, Inc.
MV ASTRO
Pago Pago, American Samoa

A special ocean dumping permit is being issued to StarKist Samoa, Inc. because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. § 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. § 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

1. GENERAL CONDITIONS

1.1. Operation under this special ocean dumping permit shall conform to all applicable federal statutes and regulations including, but not limited to, the Act, the Ocean Dumping Ban Act of 1988 (PL 100-688), the Marine Plastic Pollution Research and Control Act of 1987 (PL 100-220), the Clean Water Act (33 U.S.C. § 1251 et seq.), and the Ports and Waterways Safety Act (33 U.S.C. § 1221 et seq.)

1.2. All transportation and dumping authorized herein shall be undertaken in a manner consistent with the terms and conditions of this permit. StarKist Samoa, Inc. (hereafter referred to as "the permittee") shall be liable for compliance with all such terms and conditions. The permittee shall be held liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit. During disposal operations when the permittee's wastes are combined with similar wastes from other permittees authorized to used the ocean disposal site defined in Special Condition 2.2, all companies shall be held individually liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit.

1.3. Under § 105 of the Act, any person who violates any provision of the Act, 40 C.F.R. Parts 220 through 228 promulgated thereunder, or any term or condition of this permit shall be liable for a civil penalty of not more than \$50,000 per day for each violation. Additionally, any knowing violation of the Act, 40 C.F.R. Parts 220 through 228, or the permit may result in a criminal action being brought with penalties of not more than \$50,000 or one year in prison, or both. Violations of the Act or the terms and conditions of this permit include but are not limited to:

1.3.1. Transportation to, and dumping at any location other than that defined in Special Condition 2.2 of this permit;

1.3.2. Transportation and dumping of any material not identified in this permit, more frequently than authorized in this permit, or in excess of those quantities identified in this permit, unless specifically authorized by a written modification hereto;

1.3.3. Failure to conduct permit monitoring as required in Special Conditions 3.1, 3.3.1, 4.7 and 5.1; or

1.3.4. Failure to file waste stream and disposal site monitoring reports as required in Special Conditions 3.3, 4.7, 5.2 and 5.3.

1.4. Nothing contained herein shall be deemed to authorize, in any way, the transportation from the United States for the purpose of dumping into the ocean waters, the territorial sea, or the contiguous zone, the following materials:

- 1.4.1. High-level radioactive wastes;
 - 1.4.2. Materials, in whatever form, produced for radiological, chemical, or biological warfare;
 - 1.4.3. Persistent synthetic or natural materials which may float or remain in suspension in the ocean; or
 - 1.4.4. Medical wastes as defined in § 3(k) of the Act.
 - 1.4.5. Flotables, garbage, domestic trash, waste chemicals, solid waste, or any materials prohibited by the Ocean Dumping Ban Act or the Marine Plastic Pollution Research and Control Act.
- 1.5. Nothing contained herein shall be deemed to authorize, in any way, violation of applicable American Samoa Water Quality Standards.
- 1.6. After notice and opportunity for a hearing, this permit may be revised, revoked or limited, in whole or in part, subject only to the provisions of 40 C.F.R. §§ 222.3(b) through 222.3(h) and 40 C.F.R. § 223.2, as a result of a determination by the Regional Administrator of EPA that:
- 1.6.1. The cumulative impact of the permittee's dumping activities or the aggregate impact of all dumping activities in the dump site designated in Special Condition 2.2 should be categorized as Impact Category I, as defined in 40 C.F.R. § 228.10(c)(1);
 - 1.6.2. There has been a change in circumstances relating to the management of the disposal site designated in Special Condition 2.2;
 - 1.6.3. The dumping authorized by the permit would violate applicable American Samoa Water Quality Standards;
 - 1.6.4. The dumping authorized can no longer be carried out consistent with the criteria set forth in 40 C.F.R. Parts 227 and 228;
 - 1.6.5. The permittee violated any term or condition of the permit;
 - 1.6.6. The permittee misrepresented, or failed to accurately disclose all relevant facts in the permit application; or
 - 1.6.7. The permittee failed to keep records, engage in monitoring and reporting activities, or to notify appropriate officials in a timely manner of the transportation and dumping activities as specified in any condition of this permit.

1.7. The permittee shall ensure at all times that facilities, including any vessels associated with the permit, are in good working order to achieve compliance with the terms and conditions of this permit. During all transportation and loading operations, there shall not be a loss of fish processing wastes to any waterway or during transport to the disposal site.

1.8. Any change in the designated waste transporter may be made at the discretion of the Regional Administrator or his delegate, provided that a written request for such a transfer be made by the permittee at least thirty (30) days prior to the requested transfer date.

1.9. The permittee shall allow the Regional Administrator of EPA Region 9, the Commander of the Fourteenth U.S. Coast Guard District (USCG), the Director of the American Samoa Environmental Protection Agency (ASEPA), and/or their authorized representatives:

1.9.1. To enter into, upon, or through the permittee's premises, vessels, or other premises or vessels under the control of the permittee, where, or in which, a source of material to be dumped is located or in which any records are required to be kept under the terms and conditions of this permit or the Act;

1.9.2. To have access to and copy any records required to be kept under the terms and conditions of this permit or the Act;

1.9.3. To inspect any dumping equipment, navigational equipment, monitoring equipment or monitoring methods required in this permit;

1.9.4. To sample or require that a sample be drawn, under EPA, USCG, or ASEPA supervision, of any materials discharged or to be discharged; or

1.9.5. To inspect laboratory facilities, data, and quality control records required for compliance with any condition of this permit.

1.10. Material which is regulated by this permit may be disposed of, due to an emergency, to safeguard life at sea in locations or in a manner that does not comply with the terms of this permit. If this occurs, the permittee shall make a full report, in accordance with the provisions of 18 U.S.C. § 1001, within 15 days to the EPA Regional Administrator, the USCG and the ASEPA describing the conditions of this emergency and the actions taken, including the nature and amount of material disposed.

1.11. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property

or any invasion of rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining State or local assent required by applicable law for the activity authorized.

1.12. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, or, except as authorized by this permit, the undertaking of any work in any navigable waters.

1.13. Unless otherwise provided for herein, all terms used in this permit shall have the meanings assigned to them by the Act or 40 C.F.R. Parts 220 through 228, issued thereunder.

2. SPECIAL CONDITIONS - DISPOSAL SITE AND WASTE CHARACTERIZATION

These conditions are required to define the length of the permit period, identify the disposal site location, describe the waste materials and define maximum permitted limits for each waste material.

2.1. Location of the Waste Generator and Duration of the Permit

2.1.1. The material to be dumped shall consist of fish processing wastes, defined in Special Conditions 2.3 and 2.4, which are materials generated at the permittee's fish cannery in Pago Pago, American Samoa.

2.1.2. This permit shall become effective at midnight _____, 1990 and it shall expire three years from the effective date at midnight on _____, 1993.

2.2. Location of Disposal Site

Disposal of fish processing wastes generated at the location defined in Special Condition 2.1.1 shall be confined to a circular area with a 1.5 nautical mile radius, centered at 14° 24.00' South latitude by 170° 38.30' West longitude.

2.3. Description of Fish Processing Wastes

2.3.1. During the term of this permit, and in accordance with all other terms and conditions of this permit, the permittee is authorized to transport for disposal into ocean waters quantities of fish processing wastes that shall not exceed the following amounts:

Fish Processing Wastes	Amount
Dissolved Air Flotation (DAF) Sludge	60,000 gallons/day
Precooker Water	100,000 gallons/day
Press Water	40,000 gallons/day
Total Maximum Daily Volume	200,000 gallons/day

2.4. Waste Material Limitations

2.4.1. Permitted Physical and Chemical Constituents

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	230,460 mg/L
		BOD ₅	376,520 mg/L
		Total Phosphorus	3,050 mg/L
		Total Nitrogen	18,100 mg/L
		Oil and Grease	129,590 mg/L
		Tot. Vol. Solids	182,210 mg/L
		Density ^C	0.92 to 1.07 g/ml
		Ammonia	7,500 mg/L
Precopker Water ^b	100,000 gal/day	Total Solids	158,290 mg/L
		BOD ₅	365,450 mg/L
		Total Phosphorus	1,150 mg/L
		Total Nitrogen	21,380 mg/L
		Oil and Grease	4,830 mg/L
		Tot. Vol. Solids	146,900 mg/L
		Density ^C	0.97 to 1.06 g/ml
		Ammonia	21,200 mg/L
Press Water ^b	40,000 gal/day	Total Solids	271,920 mg/L
		BOD ₅	399,090 mg/L
		Total Phosphorus	1,990 mg/L
		Total Nitrogen	31,550 mg/L
		Oil and Grease	62,150 mg/L
		Tot. Vol. Solids	385,630 mg/L
		Density ^C	0.96 to 1.07 g/ml
		Ammonia	21,170 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

2.4.2. Permitted Maximum Concentrations for each type of waste were calculated based on an analysis of historical data from the permittee's previous research permits. The calculations followed EPA's recommended procedure for determining permit limits as defined in the EPA document titled "Guidance Document for Ocean Dumping Permit Writers" (January 30, 1988). EPA will periodically review these limits during the permit to evaluate the accuracy of the limits. If revisions are necessary, EPA will make changes according to the authority defined in the Ocean Dumping Regulations at 40 C.F.R §§ 223.2 to 223.5.

2.4.3. The pH range for all fish processing wastes shall not be less than 5.5 pH units nor greater than 7.0 pH units.

2.4.4. The Permitted Maximum Concentration and pH limits, listed above, shall not be exceeded at any time during the term of this permit.

3. SPECIAL CONDITIONS - ANALYSIS OF WASTE MATERIAL

Compliance with the permitted maximum concentrations defined in Special Condition 2.4 shall be determined by monthly monitoring of each of the waste streams permitted for ocean disposal. Additional analyses of fish processing wastes and reporting requirements are defined in this section. Any sampling dates shall be scheduled within the first two weeks of the month to allow enough time for laboratory analyses and report writing to comply with Special Condition 3.3.

3.1. Analyses of Waste Material

3.1.1. Concentrations of the constituents listed in Special Condition 2.4 and those listed in the table below shall be determined for each waste stream. A sample of each waste stream shall be taken before the individual streams are mixed prior to being pumped into the disposal vessel. A sample shall consist of three replicate samples, taken on the day that sampling is scheduled, which are pooled to be used as a composite sample. The detection limits specified in the table shall be used in all waste stream analyses.

Parameters	Detection Limits
Total Solids ^a	10.0 mg/L
BOD ₅	10.0 mg/L
Total Phosphorus	1.0 mg/L
Total Nitrogen	1.0 mg/L
Oil and Grease	10.0 mg/L
pH	0.1 pH units
Total Volatile Solids	10.0 mg/L

Parameters (cont.)	Detection Limits
Density	0.01 g/mL
Ammonia	1.0 mg/L
Aluminum	0.01 mg/L
Chromium	0.01 mg/L
Nickel	0.01 mg/L
Copper	0.01 mg/L
Lead	0.01 mg/L
Cadmium	0.01 mg/L
Mercury	0.01 mg/L
Total Petroleum Hydrocarbons ^b	0.05 mg/L

a = Limits for Total Solids will be calculated when enough data are available.

b = Infrared Spectrophotometry, EPA Method 418.1

3.1.2. All waste material sampling procedures, analytical protocols, and quality control/quality assurance procedures shall be performed in accordance with guidelines specified by EPA Region 9. The following references shall be used by the permittee:

3.1.2.1. 40 C.F.R. Part 136, EPA Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

3.1.2.2. Tetra Tech, Incorporated 1985. Summary of U.S. EPA-approved Methods, Standard Methods and Other Guidance for 301(h) Monitoring Variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Incorporated, Bellevue, Wa.; and

3.1.2.3. Environmental Protection Agency. 1987. Quality Assurance and Quality Control for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-004.

3.1.3. Any waste material constituents listed in Special Condition 3.1.1 that are shown to be consistently nondetectable, may be eliminated from further analytical tests. Before elimination of the parameter is permitted, the permittee shall obtain written approval from EPA Region 9 and the ASEPA.

3.2. Analytical Laboratory

3.2.1. Within 30 days of the effective date of this permit, the name and address of the contract laboratory or laboratories and a description of all analytical test procedures and quality assurance/quality control procedures, including detection limits being used, shall be provided for EPA Region 9 approval.

3.2.2. Any potential variation or change in the designated laboratory or analytical procedures shall be reported, in writing, for EPA Region 9 approval.

3.2.3. EPA Region 9 may require analyses of quality control samples by any laboratories employed for purposes of compliance with Special Condition 3.1 and Appendix A. Upon request, the permittee shall provide EPA Region 9 with the analytical results from such samples.

3.2.4. A complete analysis of constituents, required in Special Condition 3.1, shall be made by the permittee and reported to EPA Region 9 and the ASEPA whenever there is a change in the quality of the waste, process configuration, or waste treatment. If deemed necessary by EPA Region 9, bioassays shall be required in addition to constituent analyses.

3.3. Reporting

3.3.1. The permittee shall provide EPA Region 9, ASEPA, the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS) and the Western Pacific Regional Fishery Management Council (WPRFMC) with a report, prepared every 6 months during the permit period, that contains the following information:

3.3.1.1. Daily volumes of DAF sludge, press water and precooker water removed from the permittee's facility, and loaded into the disposal vessel reported in gallons per day and tons per day;

3.3.1.2. Monthly waste stream analyses demonstrating that the waste materials being dumped comply with the permitted limits of constituents listed in Special Condition 2.4;

3.3.1.3. Monthly analyses of the additional parameters listed in Special Condition 3.1; and

3.3.1.4. The monthly amount of coagulant polymer and alum added to the waste streams reported in pounds.

3.3.2. Such reports, including a statistical analysis of parameter variability and comparison with the permit limits, shall be submitted to EPA Region 9, ASEPA, NMFS USFWS and WPRFMC within 45 days of the end of the preceding 6-month period for which they were prepared. The reports shall be submitted within this time unless extenuating circumstances are communicated to EPA Region 9 and the ASEPA in writing.

3.3.3. A summary report of all 6-month reports listed in Special Condition 3.3.1, including a statistical analyses of parameter variability, comparisons with permit limits and a detailed discussion of the summary results, shall be submitted by the permittee to EPA and the ASEPA 45 days after the permit expires.

3.3.4. Upon detection of a violation of any permit condition, the permittee shall send a written notification of this violation to EPA Region 9 and the ASEPA within five working days and a detailed written report of the violation shall be sent to the agencies within 15 working days. This notification shall pertain to any permit limits, defined in Special Condition 2.4, that are exceeded; and any disposal operation that occurs outside the disposal site defined in Special Condition 2.2.

3.3.5. One year from the effective date of this special permit, the permittee shall submit a report to EPA and ASEPA on the concentrations of heavy metals and petroleum hydrocarbons that have been measured in each of the waste streams since 1986. This report shall contain the following information:

3.3.5.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations and statistical analyses;

3.3.5.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, including quality assurance/quality control data, and measures necessary to improve the accuracy and precision of data reported to EPA and ASEPA;

3.3.5.3. Engineering analysis of the source of these heavy metals and petroleum hydrocarbons;

3.3.5.4. Proposed methods or requirements for reducing concentrations of these heavy metals and petroleum hydrocarbons in the waste streams by factors of 10%, 50% and 95%. These proposals should include plant engineering and economic analyses for each level of reduction.

3.3.5.5. EPA and ASEPA will evaluate the report to determine possible requirements for plant modification, waste stream treatment or other special conditions to eliminate the concentrations of heavy metals and petroleum hydrocarbons in the permittee's waste streams.

3.3.6. One year from the effective date of this special permit, the permittee shall submit a report to EPA and ASEPA on the accuracy and precision of all data reported from 1980 to the present for waste stream flows and analyses of the waste streams, including DAF sludge, press water and precooker water. These data shall include test results for total solids, 5-day biological oxygen demand, total phosphorus, total nitrogen, oil and grease, pH, total volatile solids, density and ammonia, not heavy metals or petroleum hydrocarbon concentrations. This report shall contain the following information:

3.3.6.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations, regression analysis and time-series analysis;

3.3.6.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, evaluation of all laboratory quality assurance/quality control reports, and measures necessary to improve the accuracy and precision of the data reported to EPA and ASEPA; and

3.3.6.3. EPA and ASEPA will evaluate the report to determine possible requirements to improve sample or data analyses for the permittee's waste streams.

4. SPECIAL CONDITIONS - VESSEL OPERATIONS

Specifications for vessel operations are required to limit dumping activities to the dump site identified in Special Condition 2.2 and to record all dumping activities.

Fish processing wastes from the permittee's waste streams and those of other authorized permittees may be loaded into the disposal vessel together. If the waste transported to the disposal site is a combination of materials from the two plants, then the companies shall each be liable for all permit conditions regarding disposal of the wastes. If the wastes disposed at the site are only fish processing wastes generated at the StarKist Samoa plant, then StarKist Samoa shall be solely liable for all permit conditions pertaining to the disposal operation. The volume of material loaded into the disposal vessel by the permittee shall be reported as specified in Special Condition 4.7.2.3.

4.1. Posting of the Permit

This permit, or a true copy thereof, shall be placed in a conspicuous place on any vessel which will be used for the transportation and dumping authorized by this permit. If the dumping vessel is an unmanned barge, the permit or true copy of the permit shall be transferred to the towing vessel.

4.2. Vessel Identification

Every vessel engaged in the transportation of wastes for ocean disposal shall have its name and number painted in letters and numbers at least fourteen (14) inches high on both sides of the vessel. The name and number shall be kept distinctly legible always, and a vessel without such markings shall not be used to transport or dump waste material.

4.3. Determination of the Disposal Location Within the Dump Site

On each disposal trip, the master of the disposal vessel shall determine the location of the disposal operation as follows:

4.3.1. The disposal vessel, as defined under WASTE TRANSPORTER on page 1 of this permit, shall proceed directly to the center of the disposal site at the location specified in Special Condition 2.2.

4.3.2. The master of the vessel shall observe the conditions at the dump site center, noting the vessel's position (latitude and longitude), wind direction and observed surface current direction.

4.3.3. After the conditions defined in Special Condition 4.3.2 have been recorded, the master of the disposal vessel shall proceed 1.1 nautical miles up current from the center of the disposal site and record the position of the disposal vessel (latitude and longitude). This position shall be the starting point for the disposal operation for the trip.

4.3.4. This procedure shall be repeated for each disposal trip.

4.3.5. The master of the disposal vessel shall prepare a navigational plot of the procedures defined in Special Conditions 4.3.1 to 4.3.3 and supply these to the permittee. The permittee shall submit these plots in the 6-month reports required under Special Condition 3.3.1. The navigational plot shall include:

4.3.5.1. The disposal vessel's course during the entire dumping operation; and

4.3.5.2. The times and location of entry and exit from the disposal site, position and time of arrival at the center of the disposal site, position and time of arrival at the location 1.1 nautical miles up current from the disposal site, beginning and ending of dumping, and disposal vessel position plotted every 15 minutes while dumping.

4.3.6. The master of the disposal vessel shall sign and date each plot.

4.3.7. The master of the disposal vessel shall certify that disposal occurred in the manner required by the permit.

4.4. Disposal Rate and Vessel Speed

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

4.5. Navigational Equipment

The permittee shall employ an onboard electronic positioning system (see reference below) to fix the position of the disposal vessel accurately during all dumping operations. This system is subject to advance approval by EPA Region 9 and the U.S. Coast Guard Liaison Office (CGLO), Pago Pago 15 days after the effective date of the permit.

The following reference should be used in evaluating the electronic positioning system:

Environmental Protection Agency. 1987. Evaluation of Survey Positioning Methods for Nearshore Marine and Estuarine Waters. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-003.

4.6. Permitted Times for Disposal Operations

Dumping operations shall be restricted to daylight hours, unless an emergency exists and written authorization is obtained from the CGLO Pago Pago or the ASEPA prior to departure. EPA Region 9 shall be notified no later than 15 working days after the emergency in a written report of the situation.

4.7. Reporting of the Ocean Dumping Vessel Operations

4.7.1. The waste transporter shall maintain and the permittee shall submit copies of a monthly transportation and dumping logbook, including plots of all information requested in Special Condition 4.7.2, to EPA Region 9, CGLO Pago Pago, and the ASEPA as part of the 6-month report.

4.7.2. The logbook shall contain the following information for each waste disposal trip:

4.7.2.1. Permit number, date and serial trip number;

4.7.2.2. The time that loading of the vessel commences and ceases in Pago Pago Harbor;

4.7.2.3. The volume of each waste loaded into the disposal vessel from each fish cannery;

4.7.2.4. The time and navigational position that dumping commences and ceases;

4.7.2.5. A record of vessel speed and direction every 15 minutes during each dumping operation at the disposal site, and a plot on a navigational chart of the vessel's course defined in Special Condition 4.3.5;

4.7.2.6. Observe, note and plot the time and position of any flutable material;

4.7.2.7. Observe, note and plot the wind speed and direction every 30 minutes while dumping wastes at the designated disposal site;

4.7.2.8. Observe and note current direction at the beginning and end of the disposal trip, and the direction of the waste plume at the end of the disposal operation;

4.7.2.9. Observe, note and plot the presence of the previous disposal plume and any unusual occurrences during the disposal trip, or any other information relevant to the assessment of environmental impacts as a result of dumping activities; and

4.7.2.10. Any unusual occurrences noted under Special Condition 4.7.2.9 shall be highlighted in the report defined in Special Condition 3.3.1.

5. SPECIAL CONDITIONS - DUMP SITE MONITORING

The monitoring program for disposal of wastes in the ocean must document effects of disposed wastes on the receiving waters, biota, and beneficial uses of the receiving waters; compliance with EPA's Ocean Dumping Regulations; and determine compliance with permit terms and conditions. Revisions to the monitoring program may be made under the direction of EPA Region 9 at any time during the permit term, in compliance with 40 C.F.R. §§ 223.2 and 223.3. This may include a reduction or increase in the number or parameters to be monitored, the frequency of monitoring, the location of sample stations, or the number and size of samples to be collected.

Implementation of the disposal site monitoring program and all segments of the monitoring program specified in Special Condition 5 and Appendix A shall be the responsibility of the permittee.

5.1. Monitoring Program

The permittee is required to conduct the monitoring program specified by EPA Region 9, defined in Appendix A, as a means of determining the environmental impacts of ocean dumping of the waste. If possible, monitoring cruises shall be scheduled within the first two weeks of each month to allow enough time for laboratory analysis and report writing in compliance with Special Condition 5.2. The permittee shall notify the ASEPA at least 48 hours before any scheduled monitoring activities.

5.2. Monitoring Reports

Monthly site monitoring reports shall be submitted to EPA Region 9, the ASEPA, NMFS, USFWS and WPRFMC with the 6-month reports as specified in Special Condition 3.3.2. The reports shall include: neatly compiled raw data for all sample analyses, quality assurance/quality control data, statistical analysis of sample variability between stations and within samples for each parameter, and a detailed discussion of the results.

5.3. Final Summary Report

5.3.1. A report shall be submitted to EPA Region 9, ASEPA, NMFS, USFWS and WPRFMC 60 days after the permit expires. This report shall summarize all of the data collected during the waste material and dump site monitoring programs specified in this special permit.

5.3.2. At a minimum, the summary report shall contain the following sections:

5.3.2.1. Introduction (including a summary of previous ocean disposal activities),

5.3.2.2. Location of Study Sites,

5.3.2.3. Materials and Methods,

5.3.2.4. Results and Discussion (including comparisons and contrasts with previous data related to disposal of fish processing wastes off American Samoa),

5.3.2.5. Conclusions; and

5.3.2.6. References.

5.4. Quality Assurance/Quality Control

5.4.1. All appropriate phases of the monitoring, sampling, and laboratory analytical procedures shall comply with the EPA Region 9-specified protocols and references listed in Special Condition 3.1.2.

5.4.2. The qualifications of the on-site Principal Investigator in charge of the field monitoring operation at the dump site shall be submitted to EPA Region 9 and the ASEPA for approval before the initial monitoring cruise. Notification of any change in this individual shall be submitted to EPA Region 9 and ASEPA at least 7 days before the cruise is scheduled.

6. SPECIAL CONDITIONS - NOTICE TO REGULATORY AGENCIES

6.1. Notice of Sailing to U.S. Coast Guard

6.1.1. The waste transporter shall provide telephone notification of sailing to CGLO Pago Pago at 633-2299 and the ASEPA at 633-2304 during working hours (7:00 a.m. to 3:30 p.m.) no later than 24 hours prior to the estimated time of departure for the dump site defined in Special Condition 2.2.

6.1.2. The waste transporter shall immediately notify CGLO Pago Pago and the ASEPA upon any changes in the estimated time of departure greater than two hours.

6.1.3. Surveillance of activities at the dump site designated in Special Condition 2.2, may be accomplished by unannounced aerial overflights, a USCG shiprider and/or a ASEPA shiprider who will be on board the towing/conveyance vessel for the entire voyage. Within two hours after receipt of the initial notification the waste transporter will be advised whether or not a shiprider will be assigned to the waste transporter's disposal vessel.

6.1.4. The following information shall be provided to CGLO Pago Pago or the ASEPA in the notification of sailing defined above:

6.1.4.1. The time of departure,

6.1.4.2. Estimated time of arrival at the dump site,

6.1.4.3. Estimated time of departure from the dump site, and

6.1.4.4. Estimated time of return to port.

6.2. Reports and Correspondence

6.2.1. Two copies of all reports and related correspondence required by General Condition 1.9, Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4, and all other materials, including applications shall be submitted to EPA Region 9 at the following address:

Office of Pacific Island and Native American Programs
(E-4)
U.S. Environmental Protection Agency, Region 9
1235 Mission Street
San Francisco, California 94103
Telephone (415) 556-5069

6.2.2. Two copies of all reports required by General Condition 1.9 and Special Conditions 4.7 and 6.1 sent to the U.S. Coast Guard shall be submitted to the following address:

Commanding Officer
U.S. Coast Guard Liaison Office
P.O. Box 249
Pago Pago, American Samoa 96799
Telephone (684) 633-2299

6.2.3. Three copies of all reports required by General Condition 1.9 and Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4 and 6.1 sent to the American Samoa Environmental Protection Agency shall be submitted to the following address:

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799
Telephone (684) 633-2304

6.2.4. One copy of the all reports required by Special Conditions 3.3.2, 3.3.3, 5.2 and 5.3 shall be sent to the USFWS, the NMFS and the WPRFMC at the following addresses:

Project Leader
Office of Environmental Services
U.S. Fish and Wildlife Service
300 Ala Moana Boulevard
P.O. Box 50167
Honolulu, Hawaii 96850

Western Pacific Program Officer
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Executive Director
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1405
Honolulu, Hawaii 96813

Signed this _____ day of _____, 1990

For the Regional Administrator:

Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9

APPENDIX A

SPECIAL OCEAN DUMPING PERMIT OD 90-01 OCEAN DUMP SITE MONITORING PLAN

7. MONITORING OF RECEIVING WATER

Monitoring of the receiving waters at the disposal site defined in Special Condition 2.2 shall be the responsibility of the permittee. Funding and cooperation for site monitoring may be accomplished through an agreement between permittee and other permittees authorized to use the disposal site. Any agreements negotiated between the permittee and other authorized permittees shall be the sole responsibility of the permittee named in this permit. EPA Region 9 requires that a monitoring program be developed that complies with the conditions defined below.

During each monitoring cruise, the waste plume from the disposal vessel shall be sampled by taking discrete water samples for the measurement of parameters listed in Special Condition 7.2.4. Results of the first 6-month monitoring report will be evaluated by EPA Region 9 to determine whether portions of Special Conditions 7 and/or 8 will be revised. The evaluation will be based on documented sampling results and recommendations by the permittee(s).

7.1. Location of Water Sampling Stations

7.1.1. On each sampling cruise, the latitude and longitude of all sampling stations shall be determined and plotted using appropriate navigational equipment.

7.1.2. The Principal Investigator shall ensure that discrete water samples are taken at the locations marked in Figure 1.

7.1.3. The Principal Investigator shall ensure that each sampling station is positioned as close as possible to the middle of the discharge plume according to his best professional judgment.

7.1.4. The following stations shall be sampled on each sampling cruise (see Figure 1):

7.1.4.1. Station 1 shall be the starting point of the dumping operation as determined in Special Condition 4.3.

7.1.4.2. Station 2 shall be 0.25 nautical miles (nm) down-current from Station 1.

7.1.4.3. Station 3 shall be 0.5 nm down-current from Station 1.

7.2.5. If waste stream analyses, described in Special Condition 3.1, identify significantly high levels of constituents that may adversely affect marine water quality, EPA Region 9 may require that those constituents be added to the list of water column parameters in 7.2.4 above.

7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

7.3. Frequency of Sampling

7.3.1. Water samples shall be collected when dumping operations occur. Each station listed under Special Condition 7.1 shall be sampled once each month. These samples shall be used to characterize the receiving waters at the disposal site.

7.3.2. Control samples shall be taken at Station 1 prior to dumping activities.

7.3.3. Station 1 shall be sampled at a point within the plume immediately after discharge operations cease.

7.3.4. Stations 2 through 5 shall be sampled consecutively at distances indicated in Special Condition 7.1.4 to allow efficient sampling of the discharge plume. The time between each sample and the sampling location, beginning with the control sample and ending with the sample collected at the leading edge of the plume, shall be recorded.

7.4. Water Quality Criteria and Standards

7.4.1. The limited permissible concentration (LPC) of the liquid phase of the waste material shall not be exceeded at the disposal site boundary four hours after disposal operations cease. The LPC is that concentration of the material which, after allowance for initial mixing as defined at 40 C.F.R. § 227.29, does not exceed applicable American Samoa Oceanic Water Quality Standards. EPA Region 9 and the ASEPA will evaluate the LPC based on EPA's Ocean Dumping Regulations and the water quality values obtained for the stations sampled during the tenure of this permit.

7.4.2. The following standards apply to American Samoa oceanic water:

Parameter	Median not to exceed given value
Turbidity (NTU)	0.20
Total Phosphorus (ug-P/L)	11.00

Parameter (cont.)	Median not to exceed given value
Total Nitrogen (ug-N/L)	115.00
Chlorophyll <u>a</u> (ug/L)	0.18
Light Penetration Depth (feet)	150*
Dissolved Oxygen (DO)	Not less than 80% of saturation or less than 5.5 mg/L. If the natural level of DO is less than 5.5 mg/L, then the natural DO shall become the standard.
pH	The range shall be 6.5 to 8.6 pH units and within 0.2 pH units of that which would occur naturally.

*To exceed the given value 50% of the time.

8. MONITORING OF BIOLOGICAL COMMUNITIES

8.1. Pelagic Resources

8.1.1. All sightings of fish, sea turtles, sea birds, or cetaceans near the disposal site shall be recorded including:

8.1.1.1. Time, location and bearing;

8.1.1.2. Species name(s); and

8.1.1.3. Approximate number of individuals.

ENVIRONMENTAL PROTECTION AGENCY

40 C.F.R. Part 228

**OCEAN DUMPING; FINAL DESIGNATION OF SITE LOCATED OFFSHORE OF
TUTUILA ISLAND, AMERICAN SAMOA**

AGENCY: Environmental Protection Agency

ACTION: Final Rule; Correction.

SUMMARY: The Federal Register publication on February 6, 1990, 55 Fed. Reg. 3948, of the Final Rule to designate an ocean disposal site southeast of Tutuila Island, American Samoa for the disposal of fish processing wastes is hereby corrected. This correction applies to the preamble to the Final Rule as well as the Final Rule. In both the preamble to the Final Rule and the Final Rule, the center of the disposal site was erroneously designated as being 5.45 nautical miles from land and having a 14° 24.00' South latitude by 170° 38.20' West longitude. The actual longitude of the disposal site, as correctly identified in the Final Environmental Impact Statement (FEIS), dated February 3, 1989, is 170° 38.30' West longitude. In addition, under the heading "E. Regulatory Requirements" in the preamble to the Final Rule, the text erroneously stated that the longshore current is located between Pago Pago Harbor and the **southeastern** end of the island. The current actually flows between Pago Pago Harbor and the **southwestern** end of the island.

DATE: This designation shall become effective when three-year special ocean dumping permits for StarKist Samoa, Inc. and VCS Samoa Packing Company, Inc. are issued.

FOR FURTHER INFORMATION CONTACT: Mr. Patrick Cotter, Ocean

Dumping Coordinator (W-7-1), U.S. Environmental Protection Agency, Region IX, 1235 Mission Street, San Francisco, California 94103, or by telephone at (415) 705-2162.

DATED: 5.1.90

John Wine
for

DANIEL W. MCGOVERN

REGIONAL ADMINISTRATOR

REGION IX

U.S. ENVIRONMENTAL PROTECTION AGENCY

In consideration of the foregoing, Subchapter H of Chapter 1 of Title 40 is amended as set forth below.

Part 228 - [Amended]

1. The authority citation for Part 228 continues to read as follows:

Authority: 33 U.S.C. Sections 1412 and 1418.

2. Section 228.12 is amended by amending the following subparagraph to paragraph (b)(74), to read as follows:

Section 228.12 Delegation of management authority for ocean dumping sites.

* * * * *

(b) * * *

(74) American Samoa Fish Processing Waste Disposal Site-
Region IX

Location: 14° 24.00' South latitude by 170°

38.30' West longitude (1.5 nautical mile radius).

* * * * *

ADDENDUM TO FACT SHEET
SPECIAL OCEAN DUMPING PERMITS
FOR STAR-KIST SAMOA, INC. (OD 90-01) AND VCS SAMOA PACKING
COMPANY, INC. (OD 90-02) LOCATED IN PAGO PAGO, AMERICAN SAMOA

In February 1990, EPA Region 9 published a Fact Sheet on the above cited draft special ocean dumping permits. As a result of comments received on these draft permits, EPA made several revisions to the draft permits, and has now tentatively decided to proceed with final approval of the revised draft special permits. However, because of the nature and extent of the changes made to the draft special permits, EPA has decided to solicit comment on the revised draft permits prior to their issuance. Most of the revisions to the February 1990 draft permits are identified in the Responses to Comments for each draft permit. However, the changes to the waste material limitations, which were based on the submission of more current data by the applicants and not on comments received, were not set forth in the Responses to Comments and are instead set forth in full, along with the supporting documentation, in this Addendum to the Fact Sheet.

The following table contains the revised waste material limitations for the Star-Kist Samoa draft permit OD 90-01. Appendix A contains the updated data used to calculate the revised waste material limitations. All of the new calculations were performed using the same formulas and assumptions described in the Fact Sheet. In addition, limits for Total Solids have now been calculated and are also reflected in the table below.

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	230,460 mg/L
		BOD ₅	376,520 mg/L
		Total Phosphorus	3,050 mg/L
		Total Nitrogen	18,100 mg/L
		Oil and Grease	129,590 mg/L
		Tot. Vol. Solids	182,210 mg/L
		Density ^c	0.92 to 1.07 g/ml
		Ammonia	7,500 mg/L
Precooker Water ^b	100,000 gal/day	Total Solids	158,290 mg/L
		BOD ₅	365,450 mg/L
		Total Phosphorus	1,150 mg/L
		Total Nitrogen	21,380 mg/L
		Oil and Grease	4,830 mg/L
		Tot. Vol. Solids	146,900 mg/L
		Density ^c	0.97 to 1.06 g/ml
		Ammonia	21,200 mg/L

(Table continued)

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
Press. Water ^b	40,000 gal/day	Total Solids	271,920 mg/L
		BOD ₅	399,090 mg/L
		Total Phosphorus	1,990 mg/L
		Total Nitrogen	31,550 mg/L
		Oil and Grease	62,150 mg/L
		Tot. Vol. Solids	385,630 mg/L
		Density ^c	0.96 to 1.07 g/ml
		Ammonia	21,170 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2 of the draft special permit)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

The following table contains the revised waste material limitations for the VCS Samoa Packing Company draft permit OD 90-02. Appendix A contains the updated data used to calculate the revised waste material limitations. All of the new calculations were performed using the same formulas and assumptions described in the Fact Sheet. In addition, limits for Total Solids have now been calculated and are also reflected in the table below. In addition, since the publication of the Fact Sheet, the total daily volume of wastes approved for ocean dumping by VCS Samoa Packing has been increased to the quantities listed below, for a total maximum daily volume of 200,000 gallons/day.

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	492,000 mg/L
		BOD ₅	443,840 mg/L
		Total Phosphorus	3,910 mg/L
		Total Nitrogen	14,950 mg/L
		Oil and Grease	282,750 mg/L
		Tot. Vol. Solids	308,700 mg/L
		Density ^c	0.85 to 1.08 g/ml
		Ammonia	2,570 mg/L

(Table continued)

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
Precopker Water ^b	100,000 gal/day	Total Solids	257,290 mg/L
		BOD ₅	60,220 mg/L
		Total Phosphorus	2,170 mg/L
		Total Nitrogen	20,820 mg/L
		Oil and Grease	207,830 mg/L
		Tot. Vol. Solids	358,180 mg/L
		Density ^c	0.96 to 1.04 g/ml
		Ammonia	2,740 mg/L
Press Water ^b	40,000 gal/day	Total Solids	463,780 mg/L
		BOD ₅	524,270 mg/L
		Total Phosphorus	6,860 mg/L
		Total Nitrogen	32,020 mg/L
		Oil and Grease	386,480 mg/L
		Tot. Vol. Solids	384,560 mg/L
		Density ^c	0.98 to 1.07 g/ml
		Ammonia	4,940 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2 of the draft special permit)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

Additional Information

For further information on the revised special permits, requests for copies of the permits and related documents or questions pertaining to MPRSA regulations, please contact:

Patrick Cotter
Ocean Dumping Coordinator
U.S. EPA Region 9
Oceans and Estuaries Section
(W-7-1)
1235 Mission Street
San Francisco, CA 94103
(415) 705-2162

or Patricia Young
U.S. EPA Region 9
Office of Pacific Island
and Native American
Programs (E-4)
1235 Mission Street
San Francisco, CA 94103
(415) 556-5069

APPENDIX A

UPDATED DATA USED TO CALCULATE
REVISED WASTE MATERIAL LIMITATIONS
FOR
SPECIAL OCEAN DUMPING PERMITS OD 90-01 AND OD 90-02

DAF SLUDGE, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600	3390	4200	42600	6.0	110900	1.07	1305
06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500	7.5	136500	0.95	5550
03/88		261000	117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88		276500	210750	1078	4875	245000	6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500	0.57	915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850	22000	155000	5.9	238000	0.95	1500
05/89	215000		553000	760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500	3450	10200	65000	6.1	135000	0.96	1900
08/89	174500		155250	3450	11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000	5.3	300000	0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
11/89	300000		280000	835	9150	40500	6.2	290000	0.96	855
12/89	172500		36400	850	4300	80500	6.3	170000	0.95	950
01/90	140000		63000	990	7300	17000	6.3	130000	0.88	1400
02/90										
03/90										
04/90										
MAX	315000	276500	553000	3450	22000	245000	7.5	300000	1.07	5550
MIN	109500	50870	8200	150	1478	13000	5.3	51000	0.57	412
MEAN	196136	135266	119532	1414	5720	85176	6.2	148967	0.95	1345
SD	68641	57894	106087	844	3911	51399	0.4	64150	0.08	880
N	11	23	32	34	34	34	34	32	33	32
M + 2	333419	251054	331705	3101	13541	187973	7.1	277267	1.12	3105
M - 2	58854	19478	-92641	-273	-2101	-17621	5.4	20667	0.78	-416

DAF SLUDGE - SAMOA PACKING

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		50870	68775	400	1478	58402	6.5		1.05	
04/87		73300	59600	1690	4400	72863	6.2			
05/87		138000	75600		4200	42600	6.0	110900	1.07	1305
06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500		136500	0.95	
03/88			117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88			210750	1078	4875		6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500		915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850		155000	5.9	238000	0.95	1500
05/89	215000			760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500		10200	65000	6.1	135000	0.96	1900
08/89	174500		155250		11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000			0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
11/89	300000		280000	835	9150	40500	6.2		0.96	855
12/89	172500		36400	850	4300	80500	6.3	170000	0.95	950
01/90	140000		63000	990	7300	17000	6.3	130000	0.88	1400
02/90										
03/90										
04/90										
MAX	315000	203000	280000	2396	11500	160000	7.0	267000	1.07	2600
MIN	109500	50870	8200	150	1478	13000	5.4	51000	0.81	412
MEAN	196136	122553	105549	1219	5227	80333	6.2	139232	0.96	1209
SD	68641	41586	71863	581	2690	43611	0.4	53184	0.05	438
N	11	21	31	31	33	33	32	30	32	31
OUTL	0	2	1	3	1	1	2	2	1	1

DAF SLUDGE - SAMOA PACKING
Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		10.84	11.14	5.99	7.30	10.98	1.87		0.05	
04/87		11.20	11.00	7.43	8.39	11.20	1.82			
05/87		11.84	11.23		8.34	10.66	1.79	11.62	0.07	7.17
06/87		12.09	11.39	6.15	8.22	11.93	1.95	12.04	-0.01	6.86
07/87		11.63	11.12	7.29	8.67	11.45	1.89	11.46	0.00	7.03
08/87		11.67	10.41	5.01	8.19	10.61	1.86	11.57	0.00	6.02
09/87		11.96	11.29	7.38	8.40	11.14	1.79	11.81	-0.03	7.19
10/87		11.57	10.82	7.54	8.96	10.52	1.74	11.33	0.00	7.86
11/87		11.81	11.30	7.14	8.35	10.99	1.77	11.70	-0.05	6.89
12/87										
01/88		11.24	9.91	7.23	7.90	9.47	1.69	11.07	0.00	6.75
02/88		11.89	11.04	6.43	7.35	11.43		11.82	-0.05	
03/88			11.67	7.09	7.76	11.98	1.70	12.41	0.00	7.33
04/88		11.82	11.37	6.52	7.55	11.26	1.89	11.75	-0.04	7.09
05/88		12.07	11.86	6.70	8.54	11.78	1.92	12.01	-0.06	6.78
06/88		11.36	10.97	7.14	8.09	11.37	1.89	11.31	-0.01	7.23
07/88		11.84	12.09	7.73	8.19	11.95	1.86	11.79	-0.11	6.53
08/88		10.89	11.23	7.07	8.41	10.66	1.86	10.84	-0.09	6.71
09/88		11.59	11.44	7.21	8.28	11.50	1.86	11.58	-0.11	6.52
10/88			12.26	6.98	8.49		1.89	12.50	-0.03	6.69
11/88		11.93	11.73	7.73	8.74	11.34	1.89	11.83	-0.02	7.35
12/88		11.32		7.53	8.58	10.72	1.84	11.22		6.82
01/89		12.22		6.61	8.71	11.92	1.72	12.17	-0.05	6.81
02/89		11.94	11.07	7.78	9.05	10.53	1.82	11.78	0.01	7.35
03/89	11.60		11.24	6.84	7.94	11.10	1.84	11.54	-0.21	6.87
04/89	12.44		12.38	7.52		11.95	1.77	12.38	-0.05	7.31
05/89	12.28			6.63	9.20	11.70	1.81	12.24	-0.11	7.08
06/89	11.72		9.01	6.57	7.94	10.79	1.86	11.66	-0.09	7.38
07/89	11.95		11.43		9.23	11.08	1.81	11.81	-0.04	7.55
08/89	12.07		11.95		9.35	9.95	1.79	11.97	-0.04	7.41
09/89	12.66		12.51	7.52	9.22	11.70			-0.01	7.38
10/89	12.21		12.28	6.89	8.50	11.70	1.84	12.15	-0.07	7.24
11/89	12.61		12.54	6.73	9.12	10.61	1.82		-0.04	6.75
12/89	12.06		10.50	6.75	8.37	11.30	1.84	12.04	-0.05	6.86
01/90	11.85		11.05	6.90	8.90	9.74	1.84	11.78	-0.13	7.24
02/90										
03/90										
04/90										
MEAN	12.13	11.65	11.33	6.97	8.43	11.12	1.83	11.77	-0.04	7.03
SD	0.35	0.38	0.75	0.59	0.53	0.64	0.06	0.39	0.05	0.37
N	11	21	31	31	33	33	32	30	32	31
LN PL	13.11	12.56	13.00	8.27	9.61	12.55	1.96	12.64	0.08	7.85
LIMIT	491998	285817	443839	3910	14951	282750	7.1	308700	1.08	2571
density range									-0.16 0.85	

PRECOOKER WATER, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400	1295	8190	3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120
07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780	340000	7.5	89400	0.97	5000
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88		724000	419000	282	1534	550000	6.8	714000	0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89	602000			112	1000	180000	6.3	599000	0.93	2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
11/89	71000		34000	280	1600	4100	6.2	62000	0.98	230
12/89	55000		26800	110	1000	620	6.2	52000	1.00	42
01/90	52000		14000	690	7900	810	6.3	45000	1.02	160
02/90										
03/90										
04/90										
MAX	602000	724000	419000	1295	8190	550000	7.5	714000	1.02	5000
MIN	20400	1580	7600	8	35	92	5.4	500	0.93	2
MEAN	107018	63910	34512	381	3244	40538	6.3	74545	1.00	435
SD	169112	150599	74613	273	2226	112390	0.4	156947	0.02	935
N	11	22	29	33	33	33	33	32	32	32
M + 2	445243	365108	183738	926	7697	265317	7.1	388438	1.04	2304
M - 2	-231206	-237288	-114713	-164	-1209	-184241	5.4	-239348	0.95	-1435

PRECOOKER WATER - SAMOA PACKING

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400			3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120
07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780			89400	0.97	
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88				282	1534		6.8		0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89				112	1000	180000	6.3			2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
11/89	71000		34000	280	1600	4100	6.2	62000	0.98	230
12/89	55000		26800	110	1000	620	6.2	52000	1.00	42
01/90	52000		14000	690		810	6.3	45000	1.02	160
02/90										
03/90										
04/90										
MAX	172000	102000	37986	790	7300	180000	7.0	164000	1.02	1600
MIN	20400	1580	7600	8	35	92	5.4	500	0.96	2
MEAN	57520	32477	20781	352	2934	14443	6.2	35748	1.00	288
SD	42794	31475	10123	221	1910	33599	0.3	34485	0.02	431
N	10	21	28	32	31	31	32	30	31	31
OUTLI	1	1	1	1	2	2	1	2	1	1

PRECOOKER WATER - SAMOA PACKING

Natural Log of Adjusted Data and Calculations of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		9.08	10.54	3.87	6.72	10.63	1.82			
05/87		10.92	10.35			8.27	1.79	10.59	0.02	5.38
06/87		11.33	10.45	6.13	8.16	10.32	1.95	11.26	0.01	4.79
07/87		10.85	9.77	6.01	8.45	8.66	1.89	10.27	0.02	4.54
08/87		11.53	10.44	4.52	7.97	10.89	1.86	11.40	0.01	7.12
09/87		10.41	9.71	5.90	7.65	8.05	1.79	10.23	0.01	5.34
10/87		10.22	9.51	6.08	8.20	7.38	1.74	9.92	0.01	6.35
11/87		10.99	10.40	6.61	8.53	9.95	1.77	10.71	-0.04	5.30
12/87										
01/88		10.15	9.28	5.77	7.87	6.98	1.69	9.87	0.00	5.39
02/88		11.44	9.25	5.48	7.48			11.40	-0.03	
03/88		9.49	9.46	5.33	7.30	7.24	1.70	9.01	0.00	6.80
04/88		7.37		2.08	3.56	4.52	1.89	6.21	0.00	1.95
05/88				5.64	7.34		1.92		-0.04	4.76
06/88		7.94	9.05	5.49	7.58	5.60	1.89	7.88	0.00	4.09
07/88		8.22	10.03	6.47	8.72	5.08	1.86	8.22	-0.01	4.62
08/88		8.26	8.94	5.41	7.77	5.48	1.86	8.20	-0.01	4.09
09/88		8.13	9.97	6.47	8.07	10.24	1.87	10.68	-0.02	5.46
10/88		9.43	8.94	4.86	7.23	8.50	1.86	9.22	0.00	5.09
11/88		10.83	10.39	5.99	8.34	9.68	1.86	10.68	0.02	7.38
12/88		8.08		4.49	6.04	6.97	1.82	7.52	-0.04	4.08
01/89		10.23		6.44	8.01	7.31	1.84	9.57	0.01	7.35
02/89		9.90	9.04	5.24	7.35	6.27	1.79	9.55	0.00	3.91
03/89	9.92		9.10	5.30	7.30	5.94	1.79	9.57	0.01	4.33
04/89	10.59		10.41	6.04	8.65	9.18	1.82	10.41	0.01	4.33
05/89				4.72	6.91	12.10	1.84			0.69
06/89	12.06		9.85	5.89	7.65	10.17	1.84	12.01	0.00	4.20
07/89	10.93		9.80	6.67	8.90	6.72	1.77	10.55	0.02	4.70
08/89	10.67		10.23	6.40	8.67	9.05	1.77	10.37	0.00	5.30
09/89	10.24		9.47	5.67	8.58	5.25	1.82	9.95	0.01	4.33
10/89	10.55		10.17	6.45	8.58	6.59	1.79	10.24	0.02	4.58
11/89	11.17		10.43	5.63	7.38	8.32	1.82	11.03	-0.02	5.44
12/89	10.92		10.20	4.70	6.91	6.43	1.82	10.86	0.00	3.74
01/90	10.86		9.55	6.54		6.70	1.84	10.71	0.02	5.08
02/90										
03/90										
04/90										
MEAN	10.79	9.75	9.81	5.57	7.67	7.89	1.83	9.94	0.00	4.86
SD	0.57	1.31	0.54	0.95	1.02	1.96	0.06	1.28	0.02	1.38
N	10	21	28	32	31	31	32	30	31	31
LN PL	12.46	12.86	11.01	7.68	9.94	12.24	1.95	12.79	0.04	7.92
LIMIT	257289	386510	60215	2174	20815	207826	7.0	358177	1.04	2738
density range									-0.04 0.96	

PRESS WATER, SAMOA PACKING

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5			
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05	493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05	1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05	2300
08/87		280000	213000	1820	21915	117000	6.6	253000	0.94	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01	362
10/87		441000	188000	11360	10752	250000	6.1	409000	1.04	5800
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00	540
12/87										
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03	759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98	3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03	430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04	1920
05/88		276500	140000	1902	17025	92500	7.5	248000	1.03	306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05	351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00	286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02	1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02	74Q
10/88		540000	25700	1360	10500	390000	6.5	527000	0.99	530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04	1700
12/88		225000		1532	10880	87300	6.1	197000	0.93	820
01/89		273000		1656	12060	250000	6.2	252000	1.05	1110
02/89		315000	460000	3587	12623	260000	5.9	295000	1.02	821
03/89	306000		140000	1460	48000	25000	5.7	279000	1.01	254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01	390
05/89	459000		161000	1432	14000	150000	6.3	439000	1.00	310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03	4750
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03	280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02	440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03	3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03	610
11/89	220000		200000	2000	13000	53000	6.7	200000	1.04	2200
12/89	400000		31830	1420	12000	130000	6.1	370000	1.00	400
01/90	230000		77000	1800	19000	29000	6.1	200000	1.10	2400
02/90										
03/90										
04/90										
MAX	459000	540000	460000	11360	48000	390000	7.5	527000	1.10	5800
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.93	254
MEAN	277455	287222	162566	2075	15622	126506	6.3	259444	1.02	1362
SD	82616	79926	84893	1793	8061	79290	0.4	80584	0.03	1401
N	11	22	31	33	32	33	33	32	32	32
M + 2	442687	447073	332351	5660	31744	285086	7.2	420612	1.09	4164
M - 2	112222	127371	-7219	-1510	-499	-32074	5.5	98275	0.96	-1439

PRESS WATER - SAMOA PACKING
Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5		
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05 493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05 1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05 2300
08/87		280000	213000	1820	21915	117000	6.6	253000	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01 362
10/87		441000	188000		10752	250000	6.1	409000	1.04
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00 540
12/87									
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03 759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98 3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03 430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04 1920
05/88		276500	140000	1902	17025	92500		248000	1.03 306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05 351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00 286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02 1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02 740
10/88			25700	1360	10500		6.5		0.99 530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04 1700
12/88		225000		1532	10880	87300	6.1	197000	820
01/89		273000		1656	12060	250000	6.2	252000	1.05 1110
02/89		315000		3587	12623	260000	5.9	295000	1.02 821
03/89	306000		140000	1460		25000	5.7	279000	1.01 254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01 390
05/89			161000	1432	14000	150000	6.3		1.00 310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03 280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02 440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03 3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03 610
11/89	220000		200000	2000	13000	53000	6.7	200000	1.04 2200
12/89	400000		31830	1420	12000	130000	6.1	370000	1.00 400
01/90	230000		77000	1800	19000	29000	6.1	200000	2400
02/90									
03/90									
04/90									
MAX	400000	441000	280000	3810	30000	260000	7.1	409000	1.05 3900
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.98 254
MEAN	259300	275185	152652	1785	14578	118272	6.3	244540	1.02 1101
SD	59629	57970	65597	670	5574	64653	0.4	55961	0.02 976
N	10	21	30	32	31	32	32	30	29 30
OUTLI	1	1	1	1	1	1	1	2	3 2

PRESS WATER - SAMOA PACKING

Natural Log of Adjusted Data and Calculation of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		12.30	11.06	4.09		11.28	1.87			
05/87		12.56	11.80	8.25	9.10	11.79	1.92	12.45	0.05	6.20
06/87		12.65	11.88	7.76	10.00	12.02	1.92	12.55	0.05	7.39
07/87		12.64	11.98	7.77	9.28	11.90	1.92	12.43	0.05	7.74
08/87		12.54	12.27	7.51	9.99	11.67	1.89	12.44		7.87
09/87		12.42	12.19	7.75	9.41	11.31	1.72	12.22	0.01	5.89
10/87		13.00	12.14		9.28	12.43	1.81	12.92	0.04	
11/87		12.15	11.66	7.18	9.33	11.10	1.87	11.96	0.00	6.29
12/87										
01/88		12.60	11.71	7.71	9.87	10.84	1.81	12.51	0.03	6.63
02/88		12.86	11.78	7.26	10.00	12.25	1.92	12.73	-0.02	8.03
03/88		12.45	12.02	7.29	9.33	11.61	1.79	12.33	0.03	6.06
04/88		12.50	12.32	7.52	8.92	11.53	1.82	12.40	0.04	7.56
05/88		12.53	11.85	7.55	9.74	11.43		12.42	0.03	5.72
06/88		12.24	12.01	7.54	9.53	11.61	1.92	12.22	0.05	5.86
07/88		12.53	12.25	7.38	9.23	12.15	1.81	12.52	0.00	5.66
08/88		12.37	12.03	7.41	8.75	11.70	1.82	12.36	0.02	6.99
09/88		12.46	12.45	7.02	8.67	12.10	1.82	12.27	0.02	6.61
10/88			10.15	7.22	9.26		1.87		-0.01	6.27
11/88		12.33	11.53	7.42	9.79	11.28	1.82	12.24	0.04	7.44
12/88		12.32		7.33	9.29	11.38	1.81	12.19		6.71
01/89		12.52		7.41	9.40	12.43	1.82	12.44	0.05	7.01
02/89		12.66		8.19	9.44	12.47	1.77	12.59	0.02	6.71
03/89	12.63		11.85	7.29		10.13	1.74	12.54	0.01	5.54
04/89	12.57		12.51	7.31	10.31	11.03	1.82	12.51	0.01	5.97
05/89			11.99	7.27	9.55	11.92	1.84		0.00	5.74
06/89	12.25		11.98	6.95	9.43	12.07	1.96	12.13	0.03	
07/89	12.35		11.92	7.60	9.57	10.97	1.77	12.21	0.03	5.63
08/89	12.26		10.23	7.65	9.90	11.38	1.77	12.12	0.02	6.09
09/89	12.51		12.54	7.50	10.00	11.51	1.93	12.39	0.03	8.27
10/89	12.35		11.98	7.38	9.90	10.43	1.77	12.21	0.03	6.41
11/89	12.30		12.21	7.60	9.47	10.88	1.90	12.21	0.04	7.70
12/89	12.90		10.37	7.26	9.39	11.78	1.81	12.82	0.00	5.99
01/90	12.35		11.25	7.50	9.85	10.28	1.81	12.21		7.78
02/90										
03/90										
04/90										
MEAN	12.45	12.51	11.80	7.37	9.52	11.52	1.84	12.38	0.02	6.66
SD	0.21	0.20	0.62	0.66	0.39	0.61	0.06	0.21	0.02	0.83
N	10	21	30	32	31	32	32	30	29	30
LN PL	13.05	12.97	13.17	8.83	10.37	12.86	1.97	12.86	0.07	8.51
LIMIT	463783	430483	524270	6860	32017	386478	7.2	384561	1.07	4941
density range									-0.02 0.98	

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		124590	297750	1444	5728	5054	6.0	820000	1.01	2175
04/87		151960	235000	1014	12600	30141	6.2	775000	0.91	1350
05/87		154788	147000	634	7000	20222	5.1	849000	0.98	842
06/87		107490	179250	1398	6050	50011	6.0	819000	0.97	2810
07/87		175580	243750	2165	6381	16086	6.0	162615	0.70	1775
08/87		188590	99500	1732	4975	35977	6.0	178079	0.94	4375
09/87		118170	337500	1742	1525	8051	5.7	133000	0.99	
10/87		132000	281250	1240	6742	72000	6.5	137000	0.94	608
11/87		85000		1420	5490	49000	6.5	84950	1.00	1675
12/87		109750	168450	2408	8957	52500	5.9	138350	1.01	3847
01/88		83250	130280	914	10085	13434	6.5	106950	0.91	935
02/88		96400	180740	1674	7630	61500	6.5	96750	1.03	2350
03/88		115000	180740	1674	7430	61500	6.5	136000	1.01	2350
04/88		94100	199036	686	1880	63000	5.7	120000	1.00	793
05/88		79000	227344	1842	8545	75500	5.6	110500	1.02	2085
06/88		80000	227344	1842	5875	64500	5.6	108000	1.02	2085
07/88		56850	232000	1552	3575	41000	5.5	81500	1.01	1570
08/88		82500	216000	1088	6500	57000	5.9	81450	0.95	2810
09/88		60750	244500	2302	4000	45000	5.9	97500	0.99	2440
10/88		92000	215000	1002	5788	44500	5.4	117000	1.01	2775
11/88		65500	204500	350	7013	47500	5.5	86850	1.01	5550
12/88		67000	374250	1418	6750	81000	5.6	133000	1.01	8900
01/89		76000	138000	788	4485	63000	6.8	104500	1.01	1950
02/89		65500	194000	530	7025	61000	5.5	87850	0.99	550
03/89		75000	153000	1248	10000	55000	5.7	106000	1.00	1280
04/89	174000	141500	335500	746	19000	78500	5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	59000	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	78000	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	72500	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	28500	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	55500	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	50000	5.9	135000	1.03	925
11/89	110000	85000		704	1550	32000	5.6	91000	1.02	325
12/89	155000	130000		1382	4000	53000	5.8	135000	1.02	1350
01/90										
02/90										
03/90										
04/90										
MAX	174000	188590	374250	2408	19000	81000	6.8	849000	1.03	8900
MIN	110000	39650	99500	350	1525	5054	5.1	81450	0.70	195
MEAN	142889	101218	212041	1235	6654	49426	5.9	198863	0.99	1994
SD	22335	34125	65552	534	3355	20594	0.4	230011	0.06	1721
N	9	34	29	34	34	34	34	34	34	33
M + 2	187559	169467	343145	2304	13363	90613	6.7	658885	1.11	5436
M - 2	98218	32969	80937	167	-55	8238	5.1	-261159	0.87	-1447

DAF SLUDGE - STARKIST SAMOA

Adjusted Data, Outliers > Mean + 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		124590	297750	1444	5728		6.0		1.01	2175
04/87		151960	235000	1014	12600	30141	6.2		0.91	1350
05/87		154788	147000	634	7000	20222	5.1		0.98	842
06/87		107490	179250	1398	6050	50011	6.0		0.97	2810
07/87			243750	2165	6381	16086	6.0	162615		1775
08/87			99500	1732	4975	35977	6.0	178079	0.94	4375
09/87		118170	337500	1742	1525		5.7	133000	0.99	
10/87		132000	281250	1240	6742	72000	6.5	137000	0.94	608
11/87		85000		1420	5490	49000	6.5	84950	1.00	1675
12/87		109750	168450		8957	52500	5.9	138350	1.01	3847
01/88		83250	130280	914	10085	13434	6.5	106950	0.91	935
02/88		96400	180740	1674	7630	61500	6.5	96750	1.03	2350
03/88		115000	180740	1674	7430	61500	6.5	136000	1.01	2350
04/88		94100	199036	686	1880	63000	5.7	120000	1.00	793
05/88		79000	227344	1842	8545	75500	5.6	110500	1.02	2085
06/88		80000	227344	1842	5875	64500	5.6	108000	1.02	2085
07/88		56850	232000	1552	3575	41000	5.5	81500	1.01	1570
08/88		82500	216000	1088	6500	57000	5.9	81450	0.95	2810
09/88		60750	244500	2302	4000	45000	5.9	97500	0.99	2440
10/88		92000	215000	1002	5788	44500	5.4	117000	1.01	2775
11/88		65500	204500	350	7013	47500	5.5	86850	1.01	5550
12/88		67000		1418	6750	81000	5.6	133000	1.01	
01/89		76000	138000	788	4485	63000		104500	1.01	1950
02/89		65500	194000	530	7025	61000	5.5	87850	0.99	550
03/89		75000	153000	1248	10000	55000	5.7	106000	1.00	1280
04/89	174000	141500	335500	746		78500	5.4	150500	1.00	1004
05/89	118000	103150	153500	478	5700	59000	5.6	96000	0.99	476
06/89	139000	88350	209500	568	2050	78000	6.2	118000	1.02	877
07/89	160000	39650	135000	928	9110	72500	5.9	140000	1.02	2050
08/89	120000	97000		920	8650	28500	5.6	100000	1.03	735
09/89	150000	100000	209500	1068	8950	55500	5.6	125000	1.02	195
10/89	160000	120000		1098	5200	50000	5.9	135000	1.03	925
11/89	110000	85000		704	1550	32000	5.6	91000	1.02	325
12/89	155000	130000		1382	4000	53000	5.8	135000	1.02	1350
01/90										
02/90										
03/90										
04/90										
MAX	174000	154788	337500	2302	12600	81000	6.5	178079	1.03	5550
MIN	110000	39650	99500	350	1525	13434	5.1	81450	0.91	195
MEAN	142889	96164	206248	1200	6280	52105	5.8	116611	1.00	1779
SD	22335	28082	58710	500	2588	18037	0.4	24856	0.03	1212
N	9	32	28	33	33	32	33	30	33	32
OUTL	0	2	1	1	1	2	1	4	1	1

DAF SLUDGE - STARKIST SAMOA

Natural Log of Adjusted Data and Calculation of Permit Limits

 $\gamma = 0.95$, $P = 0.95$

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87		11.73	12.60	7.28	8.65		1.79		0.01	7.68
04/87		11.93	12.37	6.92	9.44	10.31	1.82		-0.09	7.21
05/87		11.95	11.90	6.45	8.85	9.91	1.64		-0.02	6.74
06/87		11.59	12.10	7.24	8.71	10.82	1.79		-0.03	7.94
07/87			12.40	7.68	8.76	9.69	1.79	12.00		7.48
08/87			11.51	7.46	8.51	10.49	1.79	12.09	-0.06	8.38
09/87		11.68	12.73	7.46	7.33		1.74	11.80	-0.02	
10/87		11.79	12.55	7.12	8.82	11.18	1.87	11.83	-0.06	6.41
11/87		11.35		7.26	8.61	10.80	1.87	11.35	0.00	7.42
12/87		11.61	12.03		9.10	10.87	1.77	11.84	0.01	8.26
01/88		11.33	11.78	6.82	9.22	9.51	1.87	11.58	-0.09	6.84
02/88		11.48	12.10	7.42	8.94	11.03	1.87	11.48	0.03	7.76
03/88		11.65	12.10	7.42	8.91	11.03	1.87	11.82	0.01	7.76
04/88		11.45	12.20	6.53	7.54	11.05	1.74	11.70	0.00	6.68
05/88		11.28	12.33	7.52	9.05	11.23	1.72	11.61	0.02	7.64
06/88		11.29	12.33	7.52	8.68	11.07	1.72	11.59	0.01	7.64
07/88		10.95	12.35	7.35	8.18	10.62	1.71	11.31	0.01	7.36
08/88		11.32	12.28	6.99	8.78	10.95	1.77	11.31	-0.05	7.94
09/88		11.01	12.41	7.74	8.29	10.71	1.77	11.49	-0.01	7.80
10/88		11.43	12.28	6.91	8.66	10.70	1.69	11.67	0.01	7.93
11/88		11.09	12.23	5.86	8.86	10.77	1.70	11.37	0.01	8.62
12/88		11.11		7.26	8.82	11.30	1.72	11.80	0.01	
01/89		11.24	11.84	6.67	8.41	11.05		11.56	0.01	7.58
02/89		11.09	12.18	6.27	8.86	11.02	1.70	11.38	-0.01	6.31
03/89		11.23	11.94	7.13	9.21	10.92	1.74	11.57	0.00	7.15
04/89	12.07	11.86	12.72	6.61		11.27	1.69	11.92	0.00	6.91
05/89	11.68	11.54	11.94	6.17	8.65	10.99	1.72	11.47	-0.01	6.17
06/89	11.84	11.39	12.25	6.34	7.63	11.26	1.82	11.68	0.02	6.78
07/89	11.98	10.59	11.81	6.83	9.12	11.19	1.77	11.85	0.02	7.63
08/89	11.70	11.48		6.82	9.07	10.26	1.72	11.51	0.03	6.60
09/89	11.92	11.51	12.25	6.97	9.10	10.92	1.72	11.74	0.02	5.27
10/89	11.98	11.70		7.00	8.56	10.82	1.77	11.81	0.03	6.83
11/89	11.61	11.35		6.56	7.35	10.37	1.72	11.42	0.02	5.78
12/89	11.95	11.78		7.23	8.29	10.88	1.76	11.81	0.02	7.21
01/90										
02/90										
03/90										
04/90										
MEAN	11.86	11.43	12.20	6.99	8.63	10.78	1.76	11.65	-0.01	7.24
SD	0.16	0.31	0.29	0.46	0.53	0.45	0.06	0.21	0.03	0.76
N	9	32	28	33	33	32	33	30	33	32
LN PL	12.35	12.11	12.84	8.02	9.80	11.77	1.90	12.11	0.07	8.92
LIMIT	230456	181858	376521	3046	18100	129589	6.7	182214	1.07	7501
density range									-0.08	
									0.92	

PRECOOKER WATER STARKIST SAMOA

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89	18700	1867	59500	380	3400	2600	5.6	13400	1.00	574
05/89	69700	11200	79500	1844	8100	690	6.2	53000	1.02	204
06/89	119000	25400	97500	618	7900	23000	6.0	96000	1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	13667
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100	369750	438	11000	840	5.9	47000	1.02	16000
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
11/89	72000	2500		364	6700	600	6.3	53000	1.03	9250
12/89	71000	3900		1660	8600	1300	5.6	49000	1.04	6300
01/90										
02/90										
03/90										
04/90										
MAX	119000	25400	369750	1844	11000	23000	6.3	96000	1.04	16000
MIN	18700	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	73711	4581	121297	597	4846	2383	5.9	31351	1.01	2988
SD	27393	5690	81931	416	3258	4866	0.3	25143	0.02	4460
N	9	22	18	22	22	22	22	22	22	22
M + 2	128496	15962	285159	1430	11362	12116	6.5	81638	1.05	11908
M - 2	18926	-6800	-42564	-235	-1670	-7349	5.4	-18936	0.97	-5933

PRECOOKER WATER - STARKIST SAMOA

Natural Log of Adjusted Data and Calculation of Permit Limit
 $\gamma = 0.95$, $P = 0.95$

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		7.51	12.04	6.75	7.66	6.09	1.82	9.80	-0.01	5.31
07/88		8.17	12.17	6.48	8.05	6.46	1.77	9.95	-0.01	5.18
07/88		8.16	12.17	5.52	7.74	7.09	1.81	9.97	0.00	5.19
07/88		7.73	12.29	5.97	8.06	7.09	1.77	9.93	-0.02	5.44
07/88		7.92	11.46	6.53	8.39	6.67	1.72	10.15	-0.01	7.84
08/88		7.70	10.99	6.43	8.29	6.61	1.81	9.92	-0.01	6.92
09/88		7.60	11.04	6.33	7.57	6.91	1.84	9.53	0.00	7.79
10/88		7.50	11.34	5.94	7.20	7.70	1.72	8.82	0.02	6.28
11/88		7.29	10.09	5.69	7.29	6.67	1.72	9.31	-0.02	7.95
12/88		7.38	11.54	6.74	8.54	8.99	1.70	8.41	0.00	8.23
01/89		7.37	11.28	6.16	7.17	6.82	1.79	9.39	0.01	7.72
02/89		7.50	11.77	5.63	7.29	6.75	1.72	8.68	0.01	4.55
03/89		7.90	11.18	5.63	7.54	6.82	1.84	9.34	0.00	5.34
04/89		7.53	10.99	5.94	8.13	7.86	1.72	9.50	0.00	6.35
05/89	11.15	9.32	11.28		9.00	6.54	1.82	10.88	0.02	5.32
06/89	11.69		11.49	6.43	8.97		1.79		0.03	6.75
07/89	11.34	8.56	11.47	6.44	8.97	6.58	1.81	11.00	0.04	
08/89	11.50	9.62		5.58	9.31	6.79	1.84	11.24	0.03	7.60
09/89	11.07	8.32		6.08	9.31	6.73	1.77	10.76	0.02	
10/89	11.10	7.86		5.90	9.04	7.65	1.82	10.82	0.04	6.19
11/89	11.18	7.82		5.90	8.81	6.40	1.84	10.88	0.03	9.13
12/89	11.17	8.27			9.06	7.17	1.72	10.80	0.04	8.75
01/90										
02/90										
03/90										
04/90										
MEAN	11.27	7.95	11.45	6.10	8.24	6.97	1.78	9.96	0.01	6.69
SD	0.22	0.61	0.55	0.39	0.73	0.64	0.05	0.82	0.02	1.37
N	8	21	17	20	22	21	22	21	22	20
LN PL	11.97	9.41	12.81	7.04	9.97	8.48	1.89	11.90	0.05	9.96
LIMIT	158285	12158	365446	1145	21381	4827	6.6	146899	1.06	21202
density range									-0.04 0.97	

PRECOOKER WATER - STARKIST SAMOA

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	TVS	DENS	NH3	
06/88		1825	169050	856	2127	440	6.2	18100	0.99	203
07/88		3520	193050	654	3120	640	5.9	20900	0.99	177
07/88		3500	193500	250	2290	1200	6.1	21400	1.00	180
07/88		2280	218500	392	3180	1200	5.9	20600	0.98	231
07/88		2750	94500	686	4420	790	5.6	25500	0.99	2530
08/88		2200	59000	622	3990	745	6.1	20350	0.99	1008
09/88		2000	62500	562	1940	1000	6.3	13800	1.00	2405
10/88		1800	84500	380	1340	2200	5.6	6800	1.02	533
11/88		1460	24000	295	1460	790	5.6	11100	0.99	2825
12/88		1600	103000	848	5100	8000	5.5	4470	1.00	3750
01/89		1580	79500	472	1296	920	6.0	12000	1.01	2250
02/89		1800	129000	280	1460	850	5.6	5900	1.01	95
03/89		2700	71500	280	1890	920	6.3	11400	1.00	208
04/89		1867	59500	380	3400	2600	5.6	13400	1.00	574
05/89	69700	11200	79500		8100	690	6.2	53000	1.02	204
06/89	119000		97500	618	7900		6.0		1.03	856
07/89	84000	5200	95500	628	7900	720	6.1	60000	1.04	
08/89	99000	15000		266	11000	890	6.3	76000	1.03	2000
09/89	64000	4100		438	11000	840	5.9	47000	1.02	
10/89	66000	2600		364	8400	2100	6.2	50000	1.04	490
11/89	72000	2500		364	6700	600	6.3	53000	1.03	9250
12/89	71000	3900			8600	1300	5.6	49000	1.04	6300
01/90										
02/90										
03/90										
04/90										
MAX	119000	15000	218500	856	11000	8000	6.3	76000	1.04	9250
MIN	64000	1460	24000	250	1296	440	5.5	4470	0.98	95
MEAN	80588	3590	106682	482	4846	1402	5.9	28272	1.01	1803
SD	19266	3361	55201	190	3258	1612	0.3	21092	0.02	2366
N	8	21	17	20	22	21	22	21	22	20
OUTLI	1	1	1	2	0	1	0	1	0	2

PRESS WATER, STAKIST SAMOA

REVISED 04/13/90

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000	3.3	60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89	91100	56600	99500	854	13000	37000	5.9	82600	1.01	1390
05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000	170000	231500	528	4440	71000	6.2	190000	1.04	28667
08/89	210000	130000		922	21000	24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
11/89	180000	120000		1122	10100	25000	6.2	170000	1.03	6600
12/89	180000	110000		1520	13000	38000	5.9	160000	1.04	4150
01/90										
02/90										
03/90										
04/90										
MAX	220000	170000	283000	1520	21000	71000	6.4	200000	1.05	28667
MIN	91100	12000	94000	327	2200	5800	3.3	20900	0.98	84
MEAN	185900	66566	165070	825	8673	23945	5.9	100498	1.01	3412
SD	39975	46761	65105	336	5604	14593	0.6	61507	0.02	5954
N	9	22	18	22	22	22	22	22	22	22
M + 2	265850	160088	295280	1496	19882	53132	7.2	223512	1.06	15319
M - 2	105950	-26956	34860	153	-2535	-5241	4.7	-22516	0.97	-8496

PRESS WATER - STARKIST SAMOA

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		58150	218156	1038	7950	21000	6.1	64450	1.00	411
07/88		35500	263100	388	3350	10000		60800	1.00	313
07/88		39100	257500	548	3760	19000	6.0	67700	1.00	439
07/88		29700	283000	376	5100	13000	6.3	55800	0.99	822
07/88		40000	110000	886	8500	17000	5.9	65900	0.99	5175
08/88		45000	108000	908	7525	18000	6.4	71700	1.01	4875
09/88		13200	94500	1016	2200	13000	6.3	46100	1.01	1835
10/88		20000	94000	802	3500	17000	5.6	36900	1.01	84
11/88		26700	122500	327	3800	17000	5.9	51900	1.00	2155
12/88		22800	98500	1104	2380	17000	6.0	35100	0.98	2980
01/89		48500	137000	518	6040	19000	6.0	77800	1.00	3650
02/89		12000	164000	548	3620	13000	5.9	20900	0.98	5000
03/89		35700	140500	630	10750	19000	6.2	60300	1.01	372
04/89		56600	99500	854	13000	37000	5.9	82600	1.01	1390
05/89	167000	94000	144000	1364	14900	29000	6.1	140000	1.02	1112
06/89	215000	117500	178000	504	9900	5800	6.0	193000	1.04	375
07/89	210000		231500	528	4440		6.2	190000	1.04	
08/89	210000	130000		922		24000	6.1	180000	1.05	1500
09/89	200000	130000	227500	994	18000	39000	6.0	180000	1.03	2000
10/89	220000	110000		1245	18000	45000	6.1	200000	1.05	1150
11/89	180000	120000		1122	10100	25000	6.2	170000	1.03	6600
12/89	180000	110000			13000	38000	5.9	160000	1.04	4150
01/90										
02/90										
03/90										
04/90										
MAX	220000	130000	283000	1364	18000	45000	6.4	200000	1.05	6600
MIN	167000	12000	94000	327	2200	5800	5.6	20900	0.98	84
MEAN	197750	61640	165070	792	8086	21705	6.1	100498	1.01	2209
SD	19543	41660	65105	305	5002	10375	0.2	61507	0.02	1952
N	8	21	18	21	21	21	21	22	22	21
OUTLI	1	1	0	1	1	1	1	0	0	1

PRESS WATER - STARKIST SAMOA

Natural Log of Adjusted Data and Calculations of Permit Limits

gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
06/88		10.97	12.29	6.95	8.98	9.95	1.81	11.07	0.00	6.02
07/88		10.48	12.48	5.96	8.12	9.21		11.02	0.00	5.75
07/88		10.57	12.46	6.31	8.23	9.85	1.79	11.12	0.00	6.08
07/88		10.30	12.55	5.93	8.54	9.47	1.84	10.93	-0.02	6.71
07/88		10.60	11.61	6.79	9.05	9.74	1.77	11.10	-0.01	8.55
08/88		10.71	11.59	6.81	8.93	9.80	1.86	11.18	0.00	8.49
09/88		9.49	11.46	6.92	7.70	9.47	1.84	10.74	0.01	7.51
10/88		9.90	11.45	6.69	8.16	9.74	1.72	10.52	0.01	4.43
11/88		10.19	11.72	5.79	8.24	9.74	1.77	10.86	0.00	7.68
12/88		10.03	11.50	7.01	7.77	9.74	1.79	10.47	-0.02	8.00
01/89		10.79	11.83	6.25	8.71	9.85	1.80	11.26	0.00	8.20
02/89		9.39	12.01	6.31	8.19	9.47	1.77	9.95	-0.02	8.52
03/89		10.48	11.85	6.45	9.28	9.85	1.82	11.01	0.01	5.92
04/89		10.94	11.51	6.75	9.47	10.52	1.78	11.32	0.01	7.24
05/89	12.03	11.45	11.88	7.22	9.61	10.28	1.81	11.85	0.02	7.01
06/89	12.28	11.67	12.09	6.22	9.20	8.67	1.79	12.17	0.04	5.93
07/89	12.25		12.35	6.27	8.40		1.82	12.15	0.04	
08/89	12.25	11.78		6.83		10.09	1.81	12.10	0.05	7.31
09/89	12.21	11.78	12.33	6.90	9.80	10.57	1.79	12.10	0.03	7.60
10/89	12.30	11.61		7.13	9.80	10.71	1.81	12.21	0.05	7.05
11/89	12.10	11.70		7.02	9.22	10.13	1.82	12.04	0.03	8.79
12/89	12.10	11.61			9.47	10.55	1.77	11.98	0.04	8.33
01/90										
02/90										
03/90										
04/90										
MEAN	12.19	10.78	11.94	6.59	8.80	9.88	1.80	11.32	0.01	7.20
SD	0.10	0.75	0.39	0.42	0.66	0.49	0.03	0.65	0.02	1.17
N	8	21	18	21	21	21	21	22	22	21
LN PL	12.51	12.56	12.90	7.60	10.36	11.04	1.87	12.86	0.06	9.96
LIMIT	271916	285535	399089	1989	31554	62154	6.5	385630	1.07	21173
density range									-0.04 0.96	

MARINE PROTECTION, RESEARCH AND SANCTUARIES ACT
OCEAN DUMPING PERMIT

PERMIT NUMBER AND TYPE: OD 90-02 Special

EFFECTIVE DATE: _____, 1990

EXPIRATION DATE: _____, 1993

PERMITTEE: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATOR: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

WASTE GENERATED AT: VCS Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799

PORT OF DEPARTURE: Pago Pago Harbor, American Samoa

WASTE TRANSPORTER: Pago Marine, Inc.
MV ASTRO
Pago Pago, American Samoa

A special ocean dumping permit is being issued to VCS Samoa Packing Company because the Regional Administrator of EPA Region 9 has determined that disposal of fish processing wastes off American Samoa meets EPA's ocean dumping criteria at 40 C.F.R. Parts 227 and 228. This special permit authorizes the transportation and dumping into ocean waters of fish processing wastes as described in the special conditions section pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA) of 1972 (33 U.S.C. § 1401 et seq.) as amended (hereinafter referred to as "the Act"); regulations issued thereunder; and the terms and conditions set forth below.

This MPRSA Special Permit does not contain any information collection requirements subject to Office of Management and Budget review under the Paper Work Reduction Act of 1980, 44 U.S.C. § 3501 et seq. This determination has been made because the permit does not require data collection by more than 10 persons.

1. GENERAL CONDITIONS

1.1. Operation under this special ocean dumping permit shall conform to all applicable federal statutes and regulations including, but not limited to, the Act, the Ocean Dumping Ban Act of 1988 (PL 100-688), the Marine Plastic Pollution Research and Control Act of 1987 (PL 100-220), the Clean Water Act (33 U.S.C. § 1251 et seq.), and the Ports and Waterways Safety Act (33 U.S.C. § 1221 et seq.)

1.2. All transportation and dumping authorized herein shall be undertaken in a manner consistent with the terms and conditions of this permit. VCS Samoa Packing Company (hereafter referred to as "the permittee") shall be liable for compliance with all such terms and conditions. The permittee shall be held liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit. During disposal operations when the permittee's wastes are combined with similar wastes from other permittees authorized to use the ocean disposal site defined in Special Condition 2.2, all companies shall be held individually liable under § 105 of the Act (33 U.S.C. § 1415) in the event of any violation of the permit.

1.3. Under § 105 of the Act, any person who violates any provision of the Act, 40 C.F.R. Parts 220 through 228 promulgated thereunder, or any term or condition of this permit shall be liable for a civil penalty of not more than \$50,000 per day for each violation. Additionally, any knowing violation of the Act, 40 C.F.R. Parts 220 through 228, or the permit may result in a criminal action being brought with penalties of not more than \$50,000 or one year in prison, or both. Violations of the Act or the terms and conditions of this permit include but are not limited to:

1.3.1. Transportation to, and dumping at any location other than that defined in Special Condition 2.2 of this permit;

1.3.2. Transportation and dumping of any material not identified in this permit, more frequently than authorized in this permit, or in excess of those quantities identified in this permit, unless specifically authorized by a written modification hereto;

1.3.3. Failure to conduct permit monitoring as required in Special Conditions 3.1, 3.3.1, 4.7 and 5.1; or

1.3.4. Failure to file waste stream and disposal site monitoring reports as required in Special Conditions 3.3, 4.7, 5.2 and 5.3.

1.4. Nothing contained herein shall be deemed to authorize, in any way, the transportation from the United States for the purpose of dumping into the ocean waters, the territorial sea, or the contiguous zone, the following materials:

1.4.1. High-level radioactive wastes;

1.4.2. Materials, in whatever form, produced for radiological, chemical, or biological warfare;

1.4.3. Persistent synthetic or natural materials which may float or remain in suspension in the ocean; or

1.4.4. Medical wastes as defined in § 3(k) of the Act.

1.4.5. Flotables, garbage, domestic trash, waste chemicals, solid waste, or any materials prohibited by the Ocean Dumping Ban Act or the Marine Plastic Pollution Research and Control Act.

1.5. Nothing contained herein shall be deemed to authorize, in any way, violation of applicable American Samoa Water Quality Standards.

1.6. After notice and opportunity for a hearing, this permit may be revised, revoked or limited, in whole or in part, subject only to the provisions of 40 C.F.R. §§ 222.3(b) through 222.3(h) and 40 C.F.R. § 223.2, as a result of a determination by the Regional Administrator of EPA that:

1.6.1. The cumulative impact of the permittee's dumping activities or the aggregate impact of all dumping activities in the dump site designated in Special Condition 2.2 should be categorized as Impact Category I, as defined in 40 C.F.R. § 228.10(c)(1);

1.6.2. There has been a change in circumstances relating to the management of the disposal site designated in Special Condition 2.2;

1.6.3. The dumping authorized by the permit would violate applicable American Samoa Water Quality Standards;

1.6.4. The dumping authorized can no longer be carried out consistent with the criteria set forth in 40 C.F.R. Parts 227 and 228;

1.6.5. The permittee violated any term or condition of the permit;

1.6.6. The permittee misrepresented, or failed to accurately disclose all relevant facts in the permit application; or

1.6.7. The permittee failed to keep records, engage in monitoring and reporting activities, or to notify appropriate officials in a timely manner of the transportation and dumping activities as specified in any condition of this permit.

1.7. The permittee shall ensure at all times that facilities, including any vessels associated with the permit, are in good working order to achieve compliance with the terms and conditions of this permit. During all transportation and loading operations, there shall not be a loss of fish processing wastes to any waterway or during transport to the disposal site.

1.8. Any change in the designated waste transporter may be made at the discretion of the Regional Administrator or his delegate, provided that a written request for such a transfer be made by the permittee at least thirty (30) days prior to the requested transfer date.

1.9. The permittee shall allow the Regional Administrator of EPA Region 9, the Commander of the Fourteenth U.S. Coast Guard District (USCG), the Director of the American Samoa Environmental Protection Agency (ASEPA), and/or their authorized representatives:

1.9.1. To enter into, upon, or through the permittee's premises, vessels, or other premises or vessels under the control of the permittee, where, or in which, a source of material to be dumped is located or in which any records are required to be kept under the terms and conditions of this permit or the Act;

1.9.2. To have access to and copy any records required to be kept under the terms and conditions of this permit or the Act;

1.9.3. To inspect any dumping equipment, navigational equipment, monitoring equipment or monitoring methods required in this permit;

1.9.4. To sample or require that a sample be drawn, under EPA, USCG, or ASEPA supervision, of any materials discharged or to be discharged; or

1.9.5. To inspect laboratory facilities, data, and quality control records required for compliance with any condition of this permit.

1.10. Material which is regulated by this permit may be disposed of, due to an emergency, to safeguard life at sea in locations or in a manner that does not comply with the terms of this permit. If this occurs, the permittee shall make a full report, in accordance with the provisions of 18 U.S.C. § 1001, within 15 days to the EPA Regional Administrator, the USCG and the ASEPA describing the conditions of this emergency and the actions taken, including the nature and amount of material disposed.

1.11. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property

or any invasion of rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining State or local assent required by applicable law for the activity authorized.

1.12. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities, or, except as authorized by this permit, the undertaking of any work in any navigable waters.

1.13. Unless otherwise provided for herein, all terms used in this permit shall have the meanings assigned to them by the Act or 40 C.F.R. Parts 220 through 228, issued thereunder.

2. SPECIAL CONDITIONS - DISPOSAL SITE AND WASTE CHARACTERIZATION

These conditions are required to define the length of the permit period, identify the disposal site location, describe the waste materials and define maximum permitted limits for each waste material.

2.1. Location of the Waste Generator and Duration of the Permit

2.1.1. The material to be dumped shall consist of fish processing wastes, defined in Special Conditions 2.3 and 2.4, which are materials generated at the permittee's fish cannery in Pago Pago, American Samoa.

2.1.2. This permit shall become effective at midnight _____, 1990 and it shall expire three years from the effective date at midnight on _____, 1993.

2.2. Location of Disposal Site

Disposal of fish processing wastes generated at the location defined in Special Condition 2.1.1 shall be confined to a circular area with a 1.5 nautical mile radius, centered at 14° 24.00' South latitude by 170° 38.30' West longitude.

2.3. Description of Fish Processing Wastes

2.3.1. During the term of this permit, and in accordance with all other terms and conditions of this permit, the permittee is authorized to transport for disposal into ocean waters quantities of fish processing wastes that shall not exceed the following amounts:

Fish Processing Wastes	Amount
Dissolved Air Flotation (DAF) Sludge	60,000 gallons/day
Precooker Water	100,000 gallons/day
Press Water	40,000 gallons/day
Total Maximum Daily Volume	200,000 gallons/day

2.4. Waste Material Limitations

2.4.1. Permitted Physical and Chemical Constituents

Fish Processing Waste	Total Permitted Daily Volume To Be Dumped	Permitted Maximum Concentration Per Constituent ^a	
DAF Sludge ^b	60,000 gal/day	Total Solids	492,000 mg/L
		BOD ₅	443,840 mg/L
		Total Phosphorus	3,910 mg/L
		Total Nitrogen	14,950 mg/L
		Oil and Grease	282,750 mg/L
		Tot. Vol. Solids	308,700 mg/L
		Density ^c	0.85 to 1.08 g/ml
		Ammonia	2,570 mg/L
Precopker Water ^b	100,000 gal/day	Total Solids	257,290 mg/L
		BOD ₅	60,220 mg/L
		Total Phosphorus	2,170 mg/L
		Total Nitrogen	20,820 mg/L
		Oil and Grease	207,830 mg/L
		Tot. Vol. Solids	358,180 mg/L
		Density ^c	0.96 to 1.04 g/ml
		Ammonia	2,740 mg/L
Press Water ^b	40,000 gal/day	Total Solids	463,780 mg/L
		BOD ₅	524,270 mg/L
		Total Phosphorus	6,860 mg/L
		Total Nitrogen	32,020 mg/L
		Oil and Grease	386,480 mg/L
		Tot. Vol. Solids	384,560 mg/L
		Density ^c	0.98 to 1.07 g/ml
		Ammonia	4,940 mg/L

a = All calculated values were rounded to the nearest 10, except the density range.

b = Gamma = 0.95, P = 0.95 (see Special Condition 2.4.2)

c = Density ranges were calculated based on two standard deviations from the average of research permit data adjusted for outliers.

2.4.2. Permitted Maximum Concentrations for each type of waste were calculated based on an analysis of historical data from the permittee's previous research permits. The calculations followed EPA's recommended procedure for determining permit limits as defined in the EPA document titled "Guidance Document for Ocean Dumping Permit Writers" (January 30, 1988). EPA Region 9 will periodically review these limits during the permit to evaluate the accuracy of the limits. If revisions are necessary, EPA Region 9 will make changes according to the authority defined in the Ocean Dumping Regulations at 40 C.F.R §§ 223.2 to 223.5.

2.4.3. The pH range for all fish processing wastes shall not be less than 5.5 pH units nor greater than 7.0 pH units.

2.4.4. The Permitted Maximum Concentration and pH limits, listed above, shall not be exceeded at any time during the term of this permit.

3. SPECIAL CONDITIONS - ANALYSIS OF WASTE MATERIAL

Compliance with the permitted maximum concentrations defined in Special Condition 2.4 shall be determined by monthly monitoring of each of the waste streams permitted for ocean disposal. Additional analyses of fish processing wastes and reporting requirements are defined in this section. Any sampling dates shall be scheduled within the first two weeks of the month to allow enough time for laboratory analyses and report writing to comply with Special Condition 3.3.

3.1. Analyses of Waste Material

3.1.1. Concentrations of the constituents listed in Special Condition 2.4 and those listed in the table below shall be determined for each waste stream. A sample of each waste stream shall be taken before the individual streams are mixed prior to being pumped into the disposal vessel. A sample shall consist of three replicate samples, taken on the day that sampling is scheduled, which are pooled to be used as a composite sample. The detection limits specified in the table shall be used in all waste stream analyses.

Parameters	Detection Limits
Total Solids ^a	10.0 mg/L
BOD ₅	10.0 mg/L
Total Phosphorus	1.0 mg/L
Total Nitrogen	1.0 mg/L
Oil and Grease	10.0 mg/L
pH	0.1 pH units
Total Volatile Solids	10.0 mg/L

Parameters (cont.)	Detection Limits
Density	0.01 g/mL
Ammonia	1.0 mg/L
Aluminum	0.01 mg/L
Chromium	0.01 mg/L
Nickel	0.01 mg/L
Copper	0.01 mg/L
Lead	0.01 mg/L
Cadmium	0.01 mg/L
Mercury	0.01 mg/L
Total Petroleum Hydrocarbons ^b	0.05 mg/L

a = Limits for Total Solids will be calculated when enough data are available.

b = Infrared Spectrophotometry, EPA Method 418.1

3.1.2. All waste material sampling procedures, analytical protocols, and quality control/quality assurance procedures shall be performed in accordance with guidelines specified by EPA Region 9. The following references shall be used by the permittee:

3.1.2.1. 40 C.F.R. Part 136, EPA Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

3.1.2.2. Tetra Tech, Incorporated 1985. Summary of U.S. EPA-approved Methods, Standard Methods and Other Guidance for 301(h) Monitoring Variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Incorporated, Bellevue, Wa.; and

3.1.2.3. Environmental Protection Agency. 1987. Quality Assurance and Quality Control for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-004.

3.1.3. Any waste material constituents listed in Special Condition 3.1.1 that are shown to be consistently nondetectable, may be eliminated from further analytical tests. Before elimination of the parameter is permitted, the permittee shall obtain written approval from EPA Region 9 and the ASEPA.

3.2. Analytical Laboratory

3.2.1. Within 30 days of the effective date of this permit, the name and address of the contract laboratory or laboratories and a description of all analytical test procedures and quality assurance/quality control procedures, including detection limits being used, shall be provided for EPA Region 9 approval.

3.2.2. Any potential variation or change in the designated laboratory or analytical procedures shall be reported, in writing, for EPA Region 9 approval.

3.2.3. EPA Region 9 may require analyses of quality control samples by any laboratories employed for purposes of compliance with Special Condition 3.1 and Appendix A. Upon request, the permittee shall provide EPA Region 9 with the analytical results from such samples.

3.2.4. A complete analysis of constituents, required in Special Condition 3.1, shall be made by the permittee and reported to EPA Region 9 and the ASEPA whenever there is a change in the quality of the waste, process configuration, or waste treatment. If deemed necessary by EPA Region 9, bioassays shall be required in addition to constituent analyses.

3.3. Reporting

3.3.1. The permittee shall provide EPA Region 9, ASEPA, the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS) and the Western Pacific Regional Fishery Management Council (WPRFMC) with a report, prepared every 6 months during the permit period, that contains the following information:

3.3.1.1. Daily volumes of DAF sludge, press water and precooker water removed from the permittee's facility, and loaded into the disposal vessel reported in gallons per day and tons per day;

3.3.1.2. Monthly waste stream analyses demonstrating that the waste materials being dumped comply with the permitted limits of constituents listed in Special Condition 2.4;

3.3.1.3. Monthly analyses of the additional parameters listed in Special Condition 3.1; and

3.3.1.4. The monthly amount of coagulant polymer and alum added to the waste streams reported in pounds.

3.3.2. Such reports, including a statistical analysis of parameter variability and comparison with the permit limits, shall be submitted to EPA Region 9, ASEPA, NMFS USFWS and WPRFMC within 45 days of the end of the preceding 6-month period for which they were prepared. The reports shall be submitted within this time unless extenuating circumstances are communicated to EPA Region 9 and the ASEPA in writing.

3.3.3. A summary report of all 6-month reports listed in Special Condition 3.3.1, including a statistical analyses of parameter variability, comparisons with permit limits and a detailed discussion of the summary results, shall be submitted by the permittee to EPA Region 9 and the ASEPA 45 days after the permit expires.

3.3.4. Upon detection of a violation of any permit condition, the permittee shall send a written notification of this violation to EPA Region 9 and the ASEPA within five working days and a detailed written report of the violation shall be sent to the agencies within 15 working days. This notification shall pertain to any permit limits, defined in Special Condition 2.4, that are exceeded; and any disposal operation that occurs outside the disposal site defined in Special Condition 2.2.

3.3.5. One year from the effective date of this special permit, the permittee shall submit a report to EPA Region 9 and ASEPA on the concentrations of heavy metals and petroleum hydrocarbons that have been measured in each of the waste streams since 1986. This report shall contain the following information:

3.3.5.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations and statistical analyses;

3.3.5.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, including quality assurance/quality control data, and measures necessary to improve the accuracy and precision of data reported to EPA Region 9 and ASEPA;

3.3.5.3. Engineering analysis of the source of these heavy metals and petroleum hydrocarbons;

3.3.5.4. Proposed methods or requirements for reducing concentrations of these heavy metals and petroleum hydrocarbons in the waste streams by factors of 10%, 50% and 95%. These proposals should include plant engineering and economic analyses for each level of reduction.

3.3.5.5. EPA Region 9 and ASEPA will evaluate the report to determine possible requirements for plant modification, waste stream treatment or other special conditions to eliminate the concentrations of heavy metals and petroleum hydrocarbons in the permittee's waste streams.

3.3.6. One year from the effective date of this special permit, the permittee shall submit a report to EPA Region 9 and ASEPA on the accuracy and precision of all data reported from 1980 to the present for waste stream flows and analyses of the waste streams, including DAF sludge, press water and precooker water. These data shall include test results for total solids, 5-day biological oxygen demand, total phosphorus, total nitrogen, oil and grease, pH, total volatile solids, density and ammonia, not heavy metals or petroleum hydrocarbon concentrations. This report shall contain the following information:

3.3.6.1. All data obtained from waste stream analyses measured at the permittee's plant, including means, standard deviations, regression analysis and time-series analysis;

3.3.6.2. Evaluation of the accuracy and precision of the data provided by the permittee's contractor, evaluation of all laboratory quality assurance/quality control reports, and measures necessary to improve the accuracy and precision of the data reported to EPA Region 9 and ASEPA; and

3.3.6.3. EPA Region 9 and ASEPA will evaluate the report to determine possible requirements to improve sample or data analyses for the permittee's waste streams.

4. SPECIAL CONDITIONS - VESSEL OPERATIONS

Specifications for vessel operations are required to limit dumping activities to the dump site identified in Special Condition 2.2 and to record all dumping activities.

Fish processing wastes from the permittee's waste streams and those of other authorized permittees may be loaded into the disposal vessel together. If the waste transported to the disposal site is a combination of materials from the two plants, then the companies shall each be liable for all permit conditions regarding disposal of the wastes. If the wastes disposed at the site are only fish processing wastes generated at the permittee's plant, then the permittee shall be solely liable for all permit conditions pertaining to the disposal operation. The volume of material loaded into the disposal vessel by the permittee shall be reported as specified in Special Condition 4.7.2.3.

4.1. Posting of the Permit

This permit, or a true copy thereof, shall be placed in a conspicuous place on any vessel which will be used for the transportation and dumping authorized by this permit. If the dumping vessel is an unmanned barge, the permit or true copy of the permit shall be transferred to the towing vessel.

4.2. Vessel Identification

Every vessel engaged in the transportation of wastes for ocean disposal shall have its name and number painted in letters and numbers at least fourteen (14) inches high on both sides of the vessel. The name and number shall be kept distinctly legible always, and a vessel without such markings shall not be used to transport or dump waste material.

4.3. Determination of the Disposal Location Within the Dump Site

On each disposal trip, the master of the disposal vessel shall determine the location of the disposal operation as follows:

4.3.1. The disposal vessel, as defined under WASTE TRANSPORTER on page 1 of this permit, shall proceed directly to the center of the disposal site at the location specified in Special Condition 2.2.

4.3.2. The master of the vessel shall observe the conditions at the dump site center, noting the vessel's position (latitude and longitude), wind direction and observed surface current direction.

4.3.3. After the conditions defined in Special Condition 4.3.2 have been recorded, the master of the disposal vessel shall proceed 1.1 nautical miles up current from the center of the disposal site and record the position of the disposal vessel (latitude and longitude). This position shall be the starting point for the disposal operation for the trip.

4.3.4. This procedure shall be repeated for each disposal trip.

4.3.5. The master of the disposal vessel shall prepare a navigational plot of the procedures defined in Special Conditions 4.3.1 to 4.3.3 and supply these to the permittee. The permittee shall submit these plots in the 6-month reports required under Special Condition 3.3.1. The navigational plot shall include:

4.3.5.1. The disposal vessel's course during the entire dumping operation; and

4.3.5.2. The times and location of entry and exit from the disposal site, position and time of arrival at the center of the disposal site, position and time of arrival at the location 1.1 nautical miles up current from the center of the disposal site, beginning and ending of dumping, and disposal vessel position plotted every 15 minutes while dumping.

4.3.6. The master of the disposal vessel shall sign and date each plot.

4.3.7. The master of the disposal vessel shall certify that disposal occurred in the manner required by the permit.

4.4. Disposal Rate and Vessel Speed

4.4.1. The disposal vessel/barge shall discharge the material authorized by this permit beginning at the disposal location as determined by Special Condition 4.3.3. Disposal shall only be authorized within the dump site boundaries on a line 1.0 nautical miles on either side of the starting point determined in Special Condition 4.3.3. The entire disposal vessel track shall be 2.0 nautical miles. The vessel track shall be in a direction that is perpendicular to the current detected at the center of the disposal site as defined in Special Condition 2.2.

4.4.1.1. From June 1 through November 30, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 140 gallons per minute per knot, not to exceed 1,400 gallons per minute at a maximum speed of 10 knots.

4.4.1.2. From December 1 through May 31, the disposal operation at the location plotted in Special Condition 4.3.3. shall be conducted at a rate of 120 gallons per minute per knot, not to exceed 1,200 gallons per minute at a maximum speed of 10 knots.

4.5. Navigational Equipment

The permittee shall employ an onboard electronic positioning system (see reference below) to fix the position of the disposal vessel accurately during all dumping operations. This system is subject to advance approval by EPA Region 9 and the U.S. Coast Guard Liaison Office (CGLO), Pago Pago 15 days after the effective date of the permit.

The following reference should be used in evaluating the electronic positioning system:

Environmental Protection Agency. 1987. Evaluation of Survey Positioning Methods for Nearshore Marine and Estuarine Waters. Office of Marine and Estuarine Protection, Washington, D.C. EPA 430/9-86-003.

4.6. Permitted Times for Disposal Operations

Dumping operations shall be restricted to daylight hours, unless an emergency exists and written authorization is obtained from the CGLO Pago Pago or the ASEPA prior to departure. EPA Region 9 shall be notified no later than 15 working days after the emergency in a written report of the situation.

4.7. Reporting of the Ocean Dumping Vessel Operations

4.7.1. The waste transporter shall maintain and the permittee shall submit copies of a monthly transportation and dumping logbook, including plots of all information requested in Special Condition 4.7.2, to EPA Region 9, CGLO Pago Pago, and the ASEPA as part of the 6-month report.

4.7.2. The logbook shall contain the following information for each waste disposal trip:

4.7.2.1. Permit number, date and serial trip number;

4.7.2.2. The time that loading of the vessel commences and ceases in Pago Pago Harbor;

4.7.2.3. The volume of each waste loaded into the disposal vessel from each fish cannery;

4.7.2.4. The time and navigational position that dumping commences and ceases;

4.7.2.5. A record of vessel speed and direction every 15 minutes during each dumping operation at the disposal site, and a plot on a navigational chart of the vessel's course defined in Special Condition 4.3.5;

4.7.2.6. Observe, note and plot the time and position of any flutable material;

4.7.2.7. Observe, note and plot the wind speed and direction every 30 minutes while dumping wastes at the designated disposal site;

4.7.2.8. Observe and note current direction at the beginning and end of the disposal trip, and the direction of the waste plume at the end of the disposal operation;

4.7.2.9. Observe, note and plot the presence of the previous disposal plume and any unusual occurrences during the disposal trip, or any other information relevant to the assessment of environmental impacts as a result of dumping activities; and

4.7.2.10. Any unusual occurrences noted under Special Condition 4.7.2.9 shall be highlighted in the report defined in Special Condition 3.3.1.

5. SPECIAL CONDITIONS - DUMP SITE MONITORING

The monitoring program for disposal of wastes in the ocean must document effects of disposed wastes on the receiving waters, biota, and beneficial uses of the receiving waters; compliance with EPA's Ocean Dumping Regulations; and determine compliance with permit terms and conditions. Revisions to the monitoring program may be made under the direction of EPA Region 9 at any time during the permit term, in compliance with 40 C.F.R. §§ 223.2 and 223.3. This may include a reduction or increase in the number or parameters to be monitored, the frequency of monitoring, the location of sample stations, or the number and size of samples to be collected.

Implementation of the disposal site monitoring program and all segments of the monitoring program specified in Special Condition 5 and Appendix A shall be the responsibility of the permittee.

5.1. Monitoring Program

The permittee is required to conduct the monitoring program specified by EPA Region 9, defined in Appendix A, as a means of determining the environmental impacts of ocean dumping of the waste. If possible, monitoring cruises shall be scheduled within the first two weeks of each month to allow enough time for laboratory analysis and report writing in compliance with Special Condition 5.2. The permittee shall notify the ASEPA at least 48 hours before any scheduled monitoring activities.

5.2. Monitoring Reports

Monthly site monitoring reports shall be submitted to EPA Region 9, the ASEPA, NMFS, USFWS and WPRFMC with the 6-month reports as specified in Special Condition 3.3.2. The reports shall include: neatly compiled raw data for all sample analyses, quality assurance/quality control data, statistical analysis of sample variability between stations and within samples for each parameter, and a detailed discussion of the results.

5.3. Final Summary Report

5.3.1. A report shall be submitted to EPA Region 9, ASEPA, NMFS, USFWS and WPRFMC 60 days after the permit expires. This report shall summarize all of the data collected during the waste material and dump site monitoring programs specified in this special permit.

5.3.2. At a minimum, the summary report shall contain the following sections:

5.3.2.1. Introduction (including a summary of previous ocean disposal activities),

5.3.2.2. Location of Study Sites,

5.3.2.3. Materials and Methods,

5.3.2.4. Results and Discussion (including comparisons and contrasts with previous data related to disposal of fish processing wastes off American Samoa),

5.3.2.5. Conclusions, and

5.3.2.6. References.

5.4. Quality Assurance/Quality Control

5.4.1. All appropriate phases of the monitoring, sampling, and laboratory analytical procedures shall comply with the EPA Region 9-specified protocols and references listed in Special Condition 3.1.2.

5.4.2. The qualifications of the on-site Principal Investigator in charge of the field monitoring operation at the dump site shall be submitted to EPA Region 9 and the ASEPA for approval before the initial monitoring cruise. Notification of any change in this individual shall be submitted to EPA Region 9 and ASEPA at least 7 days before the cruise is scheduled.

6. SPECIAL CONDITIONS - NOTICE TO REGULATORY AGENCIES

6.1. Notice of Sailing to U.S. Coast Guard

6.1.1. The waste transporter shall provide telephone notification of sailing to CGLO Pago Pago at 633-2299 and the ASEPA at 633-2304 during working hours (7:00 a.m. to 3:30 p.m.) no later than 24 hours prior to the estimated time of departure for the dump site defined in Special Condition 2.2.

6.1.2. The waste transporter shall immediately notify CGLO Pago Pago and the ASEPA upon any changes in the estimated time of departure greater than two hours.

6.1.3. Surveillance of activities at the dump site designated in Special Condition 2.2, may be accomplished by unannounced aerial overflights, a USCG shiprider and/or a ASEPA shiprider who will be on board the towing/conveyance vessel for the entire voyage. Within two hours after receipt of the initial notification the waste transporter will be advised whether or not a shiprider will be assigned to the waste transporter's disposal vessel.

6.1.4. The following information shall be provided to CGLO Pago Pago or the ASEPA in the notification of sailing defined above:

6.1.4.1. The time of departure,

6.1.4.2. Estimated time of arrival at the dump site,

6.1.4.3. Estimated time of departure from the dump site, and

6.1.4.4. Estimated time of return to port.

6.2. Reports and Correspondence

6.2.1. Two copies of all reports and related correspondence required by General Condition 1.9, Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4, and all other materials, including applications shall be submitted to EPA Region 9 at the following address:

Office of Pacific Island and Native American Programs
(E-4)
U.S. Environmental Protection Agency, Region 9
1235 Mission Street
San Francisco, California 94103
Telephone (415) 556-5069

6.2.2. Two copies of all reports required by General Condition 1.9 and Special Conditions 4.7 and 6.1 sent to the U.S. Coast Guard shall be submitted to the following address:

Commanding Officer
U.S. Coast Guard Liaison Office
P.O. Box 249
Pago Pago, American Samoa 96799
Telephone (684) 633-2299

6.2.3. Three copies of all reports required by General Condition 1.9 and Special Conditions 3.2, 3.3, 4.7, 5.2, 5.3, 5.4 and 6.1 sent to the American Samoa Environmental Protection Agency shall be submitted to the following address:

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799
Telephone (684) 633-2304

6.2.4. One copy of the all reports required by Special Conditions 3.3.2, 3.3.3, 5.2 and 5.3 shall be sent to the USFWS, the NMFS and the WPRFMC at the following addresses:

Project Leader
Office of Environmental Services
U.S. Fish and Wildlife Service
300 Ala Moana Boulevard
P.O. Box 50167
Honolulu, Hawaii 96850

Western Pacific Program Officer
National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii 96822-2396

Executive Director
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1405
Honolulu, Hawaii 96813

Signed this _____ day of _____, 1990

For the Regional Administrator:

Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9

APPENDIX A

SPECIAL OCEAN DUMPING PERMIT OD 90-01 OCEAN DUMP SITE MONITORING PLAN

7. MONITORING OF RECEIVING WATER

Monitoring of the receiving waters at the disposal site defined in Special Condition 2.2 shall be the responsibility of the permittee. Funding and cooperation for site monitoring may be accomplished through an agreement between permittee and other permittees authorized to use the disposal site. Any agreements negotiated between the permittee and other authorized permittees shall be the sole responsibility of the permittee named in this permit. EPA Region 9 requires that a monitoring program be developed that complies with the conditions defined below.

During each monitoring cruise, the waste plume from the disposal vessel shall be sampled by taking discrete water samples for the measurement of parameters listed in Special Condition 7.2.4. Results of the first 6-month monitoring report will be evaluated by EPA Region 9 to determine whether portions of Special Conditions 7 and/or 8 will be revised. The evaluation will be based on documented sampling results and recommendations by the permittee(s).

7.1. Location of Water Sampling Stations

7.1.1. On each sampling cruise, the latitude and longitude of all sampling stations shall be determined and plotted using appropriate navigational equipment.

7.1.2. The Principal Investigator shall ensure that discrete water samples are taken at the locations marked in Figure 1.

7.1.3. The Principal Investigator shall ensure that each sampling station is positioned as close as possible to the middle of the discharge plume according to his best professional judgment.

7.1.4. The following stations shall be sampled on each sampling cruise (see Figure 1):

7.1.4.1. Station 1 shall be the starting point of the dumping operation as determined in Special Condition 4.3.

7.1.4.2. Station 2 shall be 0.25 nautical miles (nm) down-current from Station 1.

7.1.4.3. Station 3 shall be 0.5 nm down-current from Station 1.

7.2.5. If waste stream analyses, described in Special Condition 3.1, identify significantly high levels of constituents that may adversely affect marine water quality, EPA Region 9 may require that those constituents be added to the list of water column parameters in 7.2.4 above.

7.2.6. Temperature measurements shall be taken at depths of 1, 3, and 10 meters at the starting point of the disposal operation, as defined in Special Condition 4.3.3.

7.3. Frequency of Sampling

7.3.1. Water samples shall be collected when dumping operations occur. Each station listed under Special Condition 7.1 shall be sampled once each month. These samples shall be used to characterize the receiving waters at the disposal site.

7.3.2. Control samples shall be taken at Station 1 prior to dumping activities.

7.3.3. Station 1 shall be sampled at a point within the plume immediately after discharge operations cease.

7.3.4. Stations 2 through 5 shall be sampled consecutively at distances indicated in Special Condition 7.1.4 to allow efficient sampling of the discharge plume. The time between each sample and the sampling location, beginning with the control sample and ending with the sample collected at the leading edge of the plume, shall be recorded.

7.4. Water Quality Criteria and Standards

7.4.1. The limited permissible concentration (LPC) of the liquid phase of the waste material shall not be exceeded at the disposal site boundary four hours after disposal operations cease. The LPC is that concentration of the material which, after allowance for initial mixing as defined at 40 C.F.R. § 227.29, does not exceed applicable American Samoa Oceanic Water Quality Standards. EPA Region 9 and the ASEPA will evaluate the LPC based on EPA's Ocean Dumping Regulations and the water quality values obtained for the stations sampled during the tenure of this permit.

7.4.2. The following standards apply to American Samoa oceanic water:

Parameter	Median not to exceed given value
Turbidity (NTU)	0.20
Total Phosphorus (ug-P/L)	11.00

Parameter (cont.)	Median not to exceed given value
Total Nitrogen (ug-N/L)	115.00
Chlorophyll <u>a</u> (ug/L)	0.18
Light Penetration Depth (feet)	150*
Dissolved Oxygen (DO)	Not less than 80% of saturation or less than 5.5 mg/L. If the natural level of DO is less than 5.5 mg/L, then the natural DO shall become the standard.
pH	The range shall be 6.5 to 8.6 pH units and within 0.2 pH units of that which would occur naturally.

*To exceed the given value 50% of the time.

8. MONITORING OF BIOLOGICAL COMMUNITIES

8.1. Pelagic Resources

8.1.1. All sightings of fish, sea turtles, sea birds, or cetaceans near the disposal site shall be recorded including:

8.1.1.1. Time, location and bearing;

8.1.1.2. Species name(s); and

8.1.1.3. Approximate number of individuals.

FAX TRANSMISSION

OFFICE OF REGIONAL COUNSEL
EPA - REGION 9
1235 MISSION STREET
SAN FRANCISCO, CA 94103

DATE: 3/13/90NO. OF PAGES (including cover sheet): 6

TO:

Name

: JANET HASHIMOTO / PAT COTTER

Organization

: EPA-WMD*attached case doesn't really shed light
on matter in question; altho interesting.*

Mail Code

: W-OCEANS + ESTUARIES(R.341).

Fax No.

: 415 / 705 - 2089

Verification No.:

415 / 705 - 2081

Subject

: AM SAMOA TUNA CANNERIES

FROM:

Name

: BARBARA ETTLINGER

Organization

: EPA-ORC

Phone No.

: 415 / 556 - 5865

Fax No.

: 415/556-5966 — FTS 556-5966

Verification No.:

415/556-5963 — FTS 556-5963

NOTE:

JUST RECD THIS -- IT PERTAINS TO OUR T.C.
YESTERDAY. DO YOU HAVE ANY THOUGHTS AFTER
REVIEWING??

(P.S. I didn't receive the entire case)

Dr. Honick's report was based on an examination on September 20, 1972. Dr. Borden concluded that while plaintiff should not engage in activities requiring constant squatting, standing, or walking, he could sit, stand, change position, and probably drive an automobile. (Significantly, plaintiff testified that he drove his automobile to the hearing before the administrative law judge.) Dr. Honick concluded that plaintiff could not engage in any occupation requiring prolonged weight bearing. Plaintiff's own testimony that he drove to the hearing and that helped his wife with the household duties must also be considered. Dr. Michaux, a psychologist and vocational expert, testified that, after reviewing all the exhibits in the case and hearing the testimony, it was his opinion that plaintiff could do such jobs as building superintendent, toll taker, gateman or timekeeper. Dr. Michaux testified further that such jobs were available, that there were often ads in the paper for handicapped persons, and that Sears Roebuck had a policy of hiring the handicapped. (Tr. 60).

Plaintiff, on the other hand, has pointed to the portion of Dr. Honick's report which suggests plaintiff should undergo physical therapy. He has also pointed out that he is considered disabled and unemployable by the State of Maryland. (Tr. 154-55). Plaintiff offered evidence to show that he had attempted to obtain work but was unsuccessful. (Tr. 155).

[3] From the foregoing, it is clear to this Court that the medical reports and vocational expert testimony constitute substantial evidence for the Secretary's conclusion that the plaintiff can engage in substantial gainful work which exists in substantial numbers in the national economy. It is immaterial that no such work is available in the area where plaintiff lives, or that there are no such job vacancies in the national economy, or that plaintiff would not be hired for such work. "Under the amended Act, the courts are not to be concerned about the availability of jobs in the community or even their availability to one with the claimant's impairments, but only with

the question of the claimant's ability to engage in gainful activity." *Whiten v. Finch*, 437 F.2d 73, 74 (4th Cir. 1971).

Accordingly, IT IS, this 6th day of May, 1976, by the United States District Court for the District of Maryland, ORDERED:

1. That plaintiff's Motion for Summary Judgment BE, and the same hereby IS, DENIED.

2. That defendant's Motion for Summary Judgment BE, and the same hereby IS, GRANTED.

3. That the Complaint BE, and the same hereby IS, DISMISSED.

4. That the Clerk of Court mail copies of this Memorandum and Order to Herbert J. Arnold, Esquire, counsel for plaintiff, and to Virginia S. Draper, Assistant United States Attorney for the District of Maryland.



STATE OF MARYLAND, Plaintiff,

Commonwealth of Virginia and State of Delaware, Intervenor-Plaintiffs,

v.

Russell E. TRAIN, Administrator, U. S. Environmental Protection Agency, and Daniel J. Snyder, III, Regional Administrator, U. S. Environmental Protection Agency, Region III, Defendants.

Civ. A. No. 75-1731.

United States District Court,
D. Maryland.

May 10, 1976.

States brought action against Administrator of Environmental Protection Agency challenging issuance of permit allowing city to use an ocean dumping site in the Atlantic Ocean for sewage sludge. On motions for

STATE OF MD. v. TRAIN

Case 415 F.Supp. 116 (1976)

117

the claimant's ability to
activity." *Whiten v.*
3, 74 (4th Cir. 1971).

IS, this 6th day of May,
ad States District Court
Maryland, ORDERED:
f's Motion for Summary
d the same hereby IS,

nt's Motion for Summa-
nd the same hereby IS,

plaint BE, and the same
SED.

c of Court mail copies of
nd Order to Herbert J.
unsel for plaintiff, and
uper, Assistant United
the District of Mary-

RECEIVED

YLAND, Plaintiff,

Virginia and State of
venor-Plaintiffs,

Administrator, U. S.
tection Agency, and
I. Regional Adminis-
nmental Protection
Defendants.

75-1731.

District Court,
land.

1976.

on against Adminis-
I Protection Agency
permit allowing city
site in the Atlantic
re. On motions for

summary judgment, the District Court, Ge-
sell, J., sitting by designation, held that
environmental impact statement was not
required to be prepared prior to issuance of
dumping permit under the Ocean Dumping
Act; that Environmental Protection Agen-
cy was required to hold hearing prior to
issuance of permit to city, even though
extensive hearings had just been held with
respect to grant of permit to another city
for dumping of much larger amounts of
sewage sludge at the same site; but that
failure of the EPA to hold the hearing did
not warrant injunction against continued
dumping pending the hearing.

Order accordingly.

1. Federal Civil Procedure ←320

Where state which sought to intervene
as party defendant filed its motion on the
eve of argument, and, although given an
opportunity to file further statement of its
views, failed to do so, and where the inter-
est of the state was fully represented by
the other defendants, motion to intervene
would be denied.

2. Health and Environment ←25.10

Environmental impact statement is not
necessary where the agency undertakes en-
vironmentally protected regulatory activi-
ties which provide the functional equivalent
of an environmental impact statement and
the regulations do not provide that such a
statement be prepared. National Environ-
mental Policy Act of 1969, § 1 et seq., 42
U.S.C.A. § 4321 et seq.

3. Health and Environment ←25.10

Environmental impact statement was
not required to be prepared prior to is-
suanee to city of permit for dumping of
sewage sludge in the ocean pursuant to the
Ocean Dumping Act. Marine Protection,
Research, and Sanctuaries Act of 1972, §§ 2
et seq., 102, 83 U.S.C.A. §§ 1401 et seq.,
1412; National Environmental Policy Act
of 1969, § 1 et seq., 42 U.S.C.A. § 4321 et
seq.

4. Health and Environment ←25.5

Where federal regulatory action is cir-
cumscribed by extensive procedures, includ-

ing public participation, for evaluating the
environmental issues and is taken by an
agency with recognized environmental ex-
pertise, formal adherence to the National
Environmental Policy Act requirements is
not required unless Congress has specific-
ally so directed. National Environmental
Policy Act of 1969, § 1 et seq., 42 U.S.C.A.
§ 4321 et seq.

5. Health and Environment ←25.5

Fact that voluminous record had been
made in Environmental Protection Agency
hearing held before permit was granted to
the city of Philadelphia to dump sewage
sludge in the Atlantic Ocean at the Cape
May site did not allow EPA to issue permit
to the city of Camden for dumping of lesser
amounts of sewage at the same site without
holding a hearing. Marine Protection, Re-
search, and Sanctuaries Act of 1972, §§ 2 et
seq., 102, 83 U.S.C.A. §§ 1401 et seq., 1412.

6. Health and Environment ←25.5

Before Environmental Protection
Agency could announce any hearing with
respect to permit for city to dump sewage
sludge in the Atlantic Ocean, EPA was
required to first receive an application from
the city and to tentatively determine that
the applicant had satisfied the standards
laid down in the EPA's regulations govern-
ing the proposed ocean dumping; EPA
could reach that tentative conclusion solely
upon the application itself and on other
data available to the agency; at that stage
other interested persons were required to
be notified and given an opportunity to
challenge the tentative conclusions either
through testimony or by presenting further
information as to alternatives or other as-
pects of the application. Marine Protec-
tion, Research, and Sanctuaries Act of 1972,
§§ 2 et seq., 102, 83 U.S.C.A. §§ 1401 et
seq., 1412.

7. Health and Environment ←25.5

Interested party, such as a state, can-
not force Environmental Protection Agency
to hold adversary hearing in which appli-
cant for permit to dump sewage sludge in
the ocean is required to come forward with
witnesses and documentary proof to justify

LILLICK & MCHOSE

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

101 WEST BROADWAY, 18TH FLOOR
SAN DIEGO, CALIFORNIA 92101
TELEPHONE (619) 234-5000

725 SOUTH FIGUEROA STREET
LOS ANGELES, CALIF. 90017
TELEPHONE (213) 488-7100

IRA S. LILICK (1978-1987)

CABLES "LILICKMCHOSE"

INTERNATIONAL TELECOM 559755

TELECOPIER (619) 236-1995

DIRECT DIAL NO.

(619) 544-3174

March 12, 1990

VIA TELECOPIER

Barbara Ettlinger
Associate Regional Counsel
U.S. EPA
1235 Mission Street
San Francisco, CA 94103

Re: VCS Samoa Packing Company Ocean Dumping
Permit 90-02 and NPDES Permit AS0000027
Our File No. VAN09-017

Dear Barbara:

This letter will discuss issues raised in our telephone conversation of March 9, 1990 regarding the negotiation of a consent decree for the referenced NPDES Permit and the granting of an increase in the permitted volumes of waste in OD 90-02. You indicated that the EPA is concerned that the failure to obtain an adequate ocean dumping permit could be deemed a "force majeure" event under the consent decree with the Government of American Samoa ("ASG"). This concern is also set forth in Mr. Lovelace's letter of March 8, 1990 to Mr. Coleman.

It was understood from the inception of these negotiations that obtaining an adequate ocean dumping permit would be a necessary prerequisite to an agreement to barge high strength waste. At the meeting in Hawaii in December, Van Camp Seafood Company ("VCS") was assured that the EPA would do everything possible to ensure that adequate ocean dumping permits would be granted, and that the relevant EPA ocean dumping personnel would be contacted to obtain their concurrence.

VCS agrees that the ocean dumping permit should not be a "force majeure" event, since this issue must be resolved prior to signing a consent decree. VCS cannot sign a consent decree obligating it to dump all high strength waste if it would be illegal to do so. Since the EPA and the ASG are eager to finalize an agreement (although the reasons for such haste have not been clearly articulated), the obvious solution is to obtain an ocean dumping permit without unnecessary delay.

Barbara Ettlinger
March 12, 1990
Page 2

In our telephone conversation, you indicated that the EPA was contemplating "reopening" the public comment period for the ocean dumping permits after receiving additional comments from StarKist and VCS. VCS does not see any legal necessity for "reopening" the comment period. The proposed final rule for the existing ocean dumping permit recognizes that additional amounts of press and pre-cooker water will be dumped, and the Environmental Impact Statement (which also received extensive public comment) contemplates that volumes well in excess of 400,000 gallons a day could be dumped at the site and not exceed the capacity of the site. Adequate public notice has been given of the increase in volume which is presently contemplated. (See, Final Environmental Impact Statement at page III-21.)

The EPA has the power to issue an ocean dumping permit given the amount of information on the designated site which it has amassed. That information clearly allows dumping of the volume sought by VCS and StarKist. See, Maryland v. Train, 415 F.Supp. 116 (D. Md. 1976) (copy enclosed). VCS sees no significant legal or technical barriers to the issuance of the ocean dumping permit, and urges the EPA to minimize any unnecessary delays. It would be tragic for both the beleaguered economy of American Samoa and the water quality of Pago Pago Harbor if delays in resolving the ocean dumping permit process result in a breakdown of the negotiations currently pending and the initiation of unnecessary enforcement proceedings by the EPA.

Since it is in the interest of all concerned that the ocean dumping permit issues be resolved and the consent decree finalized as soon as possible, we hereby request that the EPA not wait until the close of the extended comment period to provide whatever public notice it believes may be necessary. As previously noted, we do not believe public notice of the increased amounts is required. However, if notice is deemed necessary, VCS requests that the current thirty day extension be noticed publicly to allow for additional comments upon the increased volume sought in the ocean dumping permit. VCS hereby advises that the maximum amount that would be dumped under the modeling currently being performed by Dorothy Soule is 400,000 gallons per day. The maximum of 400,000 gallons would only be dumped on an emergency basis in two separate trips and in a manner which does not violate the Limiting Permissible Concentration ("LPC"). The daily amount to be dumped under normal conditions would be approximately 200,000 gallons for StarKist and VCS combined. This information is the only variation in conditions from the current permits. If additional details must also be noticed, we will provide them upon request.

On a related note, please bear in mind that the request for additional ocean dumping capacity is being made by VCS - not by

Barbara Ettlinger
March 12, 1990
Page 3

Starkist. The only concern which Starkist is addressing in the modeling requested by EPA is the vessel characteristics. The possibility of a vessel change is recognized in the proposed rule and draft permits and should not be an issue which delays issuance of ocean dumping permits to Starkist and VCS (particularly given the fact that an increase in the vessel beam increases dilution with a favorable impact on the LPC). Any delay which may result from giving notice of the increased capacity allotted to VCS should not delay issuance of an ocean dumping permit to Starkist.

Given the critical nature of the timing of the ocean dumping permit process, we ask that you respond to the issues raised in this letter as soon as possible. Your professional courtesy and cooperation are appreciated.

Very truly yours,

LILLICK & McHOSE



Thomas P. Redick

TPR:wpc
151:LTR0082C90

cc: Jim McCafferty
Jim Cox
Norm Lovelace
William P. Coleman

Should there
be new interim
limits for
TSS + OG?

Jamaica Packing

DAF Sludge

Pre Cooker

Press Water

Total

Permit

400 tons*

350 tons

320 tons

31,400

35,000

31,000

28,000

13,300

30,000

26,000

24,000

12,200

15,000

13,000

12,000

56,900

80,000

70,000

64,000

21 gal/ton

* Per Jim Cox 1/31: based on consultations w/ cannery + data collected recently

	NITROGEN (lbs/day)		PHOSPHORUS (lbs/day)	
	Monthly Average	Daily Max	Monthly Average	Daily Max
Interim Eff. limits				
PDES Permit (320 tons/day)	820	1800	33	100
SP Wish List (500 tons/day)	1,612	2,487	204	296
Revised Limits PT calculations (400/337)	1,259	1,945	159	231
Revised Limits PT calculations (370/337)	1,174	1,813	148	216

Star Kist

Interim Effluent limits	NITROGEN (lbs/day)		PHOSPHORUS (lbs/day)	
	Monthly Average	Daily max	Monthly Average	Daily max
NPDES Permit (500 tons/day)	2,200	4,300	440	750
Revised-EPA (current data - no factor)	1,454	2,108	134	284

Ocean Dumping Permit

DAF Sludge	60,000
Pre-Cooker Water	100,000
Press Water	40,000
Total	200,000

DAF SLUDGE, SAMOA PACKING

REVISED 12/18/89

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3	
03/87	50870	68775	400	1478	58402	6.5		1.05		
04/87	73300	59600	1690	4400	72863	6.2				
05/87	138000	75600	3390	4200	42600	6.0	110900	1.07	1305	
06/87	178000	88600	470	3700	151000	7.0	169000	0.99	950	
07/87	112000	67800	1465	5800	94000	6.6	94900	1.00	1125	
08/87	117000	33300	150	3612	40600	6.4	106000	1.00	412	
09/87	156450	80200	1610	4425	68750	6.0	134900	0.97	1330	
10/87	106300	50000	1880	7760	37000	5.7	83700	1.00	2600	
11/87	135000	81000	1258	4232	59000	5.9	120000	0.95	980	
12/87										
01/88	75800	20200	1375	2700	13000	5.4	64200	1.00	852	
02/88	146000	62600	620	1558	92500	7.5	136500	0.95	5550	
03/88	261000	117000	1199	2350	160000	5.5	245500	1.00	1520	
04/88	135500	87000	676	1910	77500	6.6	126500	0.96	1195	
05/88	174000	142000	816	5110	130000	6.8	164000	0.94	880	
06/88	85450	58000	1260	3270	87000	6.6	81350	0.99	1385	
07/88	138500	178500	2278	3593	155000	6.4	132000	0.90	687	
08/88	53500	75000	1174	4500	42500	6.4	51000	0.91	820	
09/88	107850	92750	1354	3940	98500	6.4	106500	0.90	680	
10/88	276500	210750	1078	4875	245000	6.6	267000	0.97	805	
11/88	151000	124500	2268	6236	84000	6.6	137000	0.98	1560	
12/88	82600		1862	5310	45400	6.3	74500	0.57	915	
01/89	203000		746	6085	150000	5.6	193500	0.95	910	
02/89	153500	64500	2396	8491	37500	6.2	130500	1.01	1550	
03/89	109500	76000	936	2800	66500	6.3	103000	0.81	965	
04/89	252500	238000	1850	22000	155000	5.9	238000	0.95	1500	
05/89	215000	553000	760	9900	120000	6.1	207500	0.90	1190	
06/89	123500	8200	710	2800	48500	6.4	115500	0.91	1610	
07/89	155000	92500	3450	10200	65000	6.1	135000	0.96	1900	
08/89	174500	155250	3450	11500	20868	6.0	158500	0.96	1650	
09/89	315000	270000	1850	10100	120000	5.3	300000	0.99	1600	
10/89	200000	215000	985	4900	120000	6.3	190000	0.93	1400	
MAX	315000	276500	553000	3450	22000	245000	7.5	300000	1.07	5550
MIN	109500	50870	8200	150	1478	13000	5.3	51000	0.57	412
MEAN	193125	135266	118815	1465	5604	88967	6.2	144033	0.95	1373
SD	68187	57894	105731	867	4033	51662	0.5	61578	0.09	918
N	8	23	29	31	31	31	31	29	30	29
M + 2	329498	251054	330277	3200	13670	192291	7.2	267189	1.12	3209
M - 2	56752	19478	-92648	-270	-2462	-14357	5.3	20876	0.77	-463

Adjusted Data, Outliers > 2 Standard Deviations

DATE TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
03/87	50870	68775	400	1478	58402	6.5		1.05	
04/87	73300	59600	1690	4400	72863	6.2			
05/87	138000	75600		4200	42600	6.0	110900	1.07	1305

06/87		178000	88600	470	3700	151000	7.0	169000	0.99	950
07/87		112000	67800	1465	5800	94000	6.6	94900	1.00	1125
08/87		117000	33300	150	3612	40600	6.4	106000	1.00	412
09/87		156450	80200	1610	4425	68750	6.0	134900	0.97	1330
10/87		106300	50000	1880	7760	37000	5.7	83700	1.00	2600
11/87		135000	81000	1258	4232	59000	5.9	120000	0.95	980
12/87										
01/88		75800	20200	1375	2700	13000	5.4	64200	1.00	852
02/88		146000	62600	620	1558	92500		136500	0.95	
03/88			117000	1199	2350	160000	5.5	245500	1.00	1520
04/88		135500	87000	676	1910	77500	6.6	126500	0.96	1195
05/88		174000	142000	816	5110	130000	6.8	164000	0.94	880
06/88		85450	58000	1260	3270	87000	6.6	81350	0.99	1385
07/88		138500	178500	2278	3593	155000	6.4	132000	0.90	687
08/88		53500	75000	1174	4500	42500	6.4	51000	0.91	820
09/88		107850	92750	1354	3940	98500	6.4	106500	0.90	680
10/88			210750	1078	4875		6.6	267000	0.97	805
11/88		151000	124500	2268	6236	84000	6.6	137000	0.98	1560
12/88		82600		1862	5310	45400	6.3	74500		915
01/89		203000		746	6085	150000	5.6	193500	0.95	910
02/89		153500	64500	2396	8491	37500	6.2	130500	1.01	1550
03/89	109500		76000	936	2800	66500	6.3	103000	0.81	965
04/89	252500		238000	1850		155000	5.9	238000	0.95	1500
05/89	215000			760	9900	120000	6.1	207500	0.90	1190
06/89	123500		8200	710	2800	48500	6.4	115500	0.91	1610
07/89	155000		92500		10200	65000	6.1	135000	0.96	1900
08/89	174500		155250		11500	20868	6.0	158500	0.96	1650
09/89	315000		270000	1850	10100	120000	5.3		0.99	1600
10/89	200000		215000	985	4900	120000	6.3	190000	0.93	1400
MAX	315000	203000	270000	2396	11500	160000	7	267000	1.07	2600
MIN	109500	50870	8200	150	1478	13000	5	51000	0.81	412
MEAN	193125	122553	103308	1254	5058	83766	6	138463	0.96	1224
SD	68187	41586	66043	601	2692	43514	0	54765	0.05	452
N	8	21	28	28	30	30	30	28	29	28
OUTL	0	2	1	3	1	1	1	1	1	1

Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE TS	TSS	BOD5	PHOS	NITRO	D & G	PH	TVS	DENS	NH3
03/87	10.84	11.14	5.99	7.30	10.98	1.87		0.05	
04/87	11.20	11.00	7.43	8.39	11.20	1.82			
05/87	11.84	11.23		8.34	10.66	1.79	11.62	0.07	7.17
06/87	12.09	11.39	6.15	8.22	11.93	1.95	12.04	-0.01	6.86
07/87	11.63	11.12	7.29	8.67	11.45	1.89	11.46	0.00	7.03
08/87	11.67	10.41	5.01	8.19	10.61	1.86	11.57	0.00	6.02
09/87	11.96	11.29	7.38	8.40	11.14	1.79	11.81	-0.03	7.19
10/87	11.57	10.82	7.54	8.96	10.52	1.74	11.33	0.00	7.86
11/87	11.81	11.30	7.14	8.35	10.99	1.77	11.70	-0.05	6.89
12/87									
01/88	11.24	9.91	7.23	7.90	9.47	1.69	11.07	0.00	6.75

02/88		11.89	11.04	6.43	7.35	11.43		11.82	-0.05	
03/88			11.67	7.09	7.76	11.98	1.70	12.41	0.00	7.33
04/88		11.82	11.37	6.52	7.55	11.26	1.89	11.75	-0.04	7.09
05/88		12.07	11.86	6.70	8.54	11.78	1.92	12.01	-0.06	6.78
06/88		11.36	10.97	7.14	8.09	11.37	1.89	11.31	-0.01	7.23
07/88		11.84	12.09	7.73	8.19	11.95	1.86	11.79	-0.11	6.53
08/88		10.89	11.23	7.07	8.41	10.66	1.86	10.84	-0.09	6.71
09/88		11.59	11.44	7.21	8.28	11.50	1.86	11.58	-0.11	6.52
10/88			12.26	6.98	8.49		1.89	12.50	-0.03	6.69
11/88		11.93	11.73	7.73	8.74	11.34	1.89	11.83	-0.02	7.35
12/88		11.32		7.53	8.58	10.72	1.84	11.22		6.82
01/89		12.22		6.61	8.71	11.92	1.72	12.17	-0.05	6.81
02/89		11.94	11.07	7.78	9.05	10.53	1.82	11.78	0.01	7.35
03/89	11.60		11.24	6.84	7.94	11.10	1.84	11.54	-0.21	6.87
04/89	12.44		12.38	7.52		11.95	1.77	12.38	-0.05	7.31
05/89	12.28			6.63	9.20	11.70	1.81	12.24	-0.11	7.08
06/89	11.72		9.01	6.57	7.94	10.79	1.86	11.66	-0.09	7.38
07/89	11.95		11.43		9.23	11.08	1.81	11.81	-0.04	7.55
08/89	12.07		11.95		9.35	9.95	1.79	11.97	-0.04	7.41
09/89	12.66		12.51	7.52	9.22	11.70	1.67		-0.01	7.38
10/89	12.21		12.28	6.89	8.50	11.70	1.84	12.15	-0.07	7.24
MEAN	12.12	11.65	11.33	6.99	8.39	11.18	1.82	11.76	-0.04	7.04
SD	0.35	0.38	0.74	0.61	0.54	0.62	0.07	0.40	0.05	0.38
N	8	21	28	28	30	30	30	28	29	28
LN PL	13.25	12.56	12.97	8.35	9.58	12.55	1.97	12.65	0.08	7.89
LIMIT	566556	285817	429466	4241	14534	280966	7.2	313060	1.08	2666
density range									-0.16	
									0.85	

PRECOOKER WATER. SAMOA PACKING

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	D & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400	1295	8190	3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120
07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780	340000	7.5	89400	0.97	5000
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88		724000	419000	282	1534	550000	6.8	714000	0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89	602000			112	1000	180000	6.3	599000	0.93	2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
MAX	602000	724000	419000	1295	8190	550000	7.5	714000	1.02	5000
MIN	20400	1580	7600	8	35	92	5.4	500	0.93	2
MEAN	124900	63910	35618	383	3218	44407	6.3	76774	1.00	465
SD	198711	150599	78833	275	2111	117335	0.4	164959	0.02	978
N	8	22	26	30	30	30	30	29	29	29
M + 2	522321	365108	193283	934	7439	279077	7.1	406691	1.04	2421
M - 2	-272521	-237288	-122048	-167	-1003	-190262	5.4	-253143	0.95	-1491

Adjusted Data. Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	D & G	PH	TVS	DENS	NH3
04/87		8810	37986	48	832	41333	6.2			
05/87		55000	31400			3900	6.0	39800	1.02	216
06/87		83700	34500	458	3500	30300	7.0	77300	1.01	120

07/87		51500	17500	406	4680	5760	6.6	28800	1.02	94
08/87		102000	34100	92	2890	53600	6.4	89700	1.01	1240
09/87		33200	16500	364	2100	3140	6.0	27600	1.01	209
10/87		27450	13500	439	3650	1600	5.7	20400	1.01	575
11/87		59400	33000	742	5071	21000	5.9	44600	0.96	200
12/87										
01/88		25700	10750	320	2615	1070	5.4	19400	1.00	220
02/88		93100	10400	239	1780			89400	0.97	
03/88		13200	12800	206	1480	1400	5.5	8200	1.00	900
04/88		1580		8	35	92	6.6	500	1.00	7
05/88				282	1534		6.8		0.96	117
06/88		2800	8500	243	1950	270	6.6	2650	1.00	60
07/88		3700	22800	648	6135	160	6.4	3700	0.99	101
08/88		3850	7600	223	2360	240	6.4	3650	0.99	60
09/88		3400	21400	644	3210	28000	6.5	43400	0.98	236
10/88		12400	7600	129	1380	4900	6.4	10100	1.00	163
11/88		50300	32500	401	4180	16000	6.4	43500	1.02	1600
12/88		3230		89	420	1060	6.2	1840	0.96	59
01/89		27700		626	3025	1500	6.3	14400	1.01	1555
02/89		20000	8400	188	1550	530	6.0	14000	1.00	50
03/89	20400		9000	200	1480	380	6.0	14300	1.01	76
04/89	39800		33200	420	5700	9700	6.2	33200	1.01	76
05/89				112	1000	180000	6.3			2
06/89	172000		19000	360	2100	26000	6.3	164000	1.00	67
07/89	56000		18000	790	7300	830	5.9	38000	1.02	110
08/89	43000		27625	600	5800	8532	5.9	32000	1.00	200
09/89	28000		13000	290	5300	190	6.2	21000	1.01	76
10/89	38000		26000	630	5300	730	6.0	28000	1.02	98
MAX	172000	102000	37986	790	7300	180000	7.0	164000	1.02	1600
MIN	20400	1580	7600	8	35	92	5.4	500	0.96	2
MEAN	56743	32477	20282	352	3047	15793	6.2	33831	1.00	303
SD	52056	31475	10214	219	1924	35136	0.4	35815	0.02	451
N	7	21	25	29	29	28	29	27	28	28
OUTLI	1	1	1	1	1	2	1	2	1	1

Natural Log of Adjusted Data and Calculations of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	D & B	PH	TVS	DENS	NH3
04/87		9.08	10.54	3.87	6.72	10.63	1.82			
05/87		10.92	10.35			8.27	1.79	10.59	0.02	5.38
06/87		11.33	10.45	6.13	8.16	10.32	1.95	11.26	0.01	4.79
07/87		10.85	9.77	6.01	8.45	8.66	1.89	10.27	0.02	4.54
08/87		11.53	10.44	4.52	7.97	10.89	1.86	11.40	0.01	7.12
09/87		10.41	9.71	5.90	7.65	8.05	1.79	10.23	0.01	5.34
10/87		10.22	9.51	6.08	8.20	7.38	1.74	9.92	0.01	6.35
11/87		10.99	10.40	6.61	8.53	9.95	1.77	10.71	-0.04	5.30
12/87										
01/88		10.15	9.28	5.77	7.87	6.98	1.69	9.87	0.00	5.39
02/88		11.44	9.25	5.48	7.48			11.40	-0.03	
03/88		9.49	9.46	5.33	7.30	7.24	1.70	9.01	0.00	6.80

04/88		7.37		2.08	3.56	4.52	1.89	6.21	0.00	1.95
05/88				5.64	7.34		1.92		-0.04	4.76
06/88		7.94	9.05	5.49	7.58	5.60	1.89	7.88	0.00	4.09
07/88		8.22	10.03	6.47	8.72	5.08	1.86	8.22	-0.01	4.62
08/88		8.26	8.94	5.41	7.77	5.48	1.86	8.20	-0.01	4.09
09/88		8.13	9.97	6.47	8.07	10.24	1.87	10.68	-0.02	5.46
10/88		9.43	8.94	4.86	7.23	8.50	1.86	9.22	0.00	5.09
11/88		10.83	10.39	5.99	8.34	9.68	1.86	10.68	0.02	7.38
12/88		8.08		4.49	6.04	6.97	1.82	7.52	-0.04	4.08
01/89		10.23		6.44	8.01	7.31	1.84	9.57	0.01	7.35
02/89		9.90	9.04	5.24	7.35	6.27	1.79	9.55	0.00	3.91
03/89	9.92		9.10	5.30	7.30	5.94	1.79	9.57	0.01	4.33
04/89	10.59		10.41	6.04	8.65	9.18	1.82	10.41	0.01	4.33
05/89				4.72	6.91	12.10	1.84			0.69
06/89	12.06		9.85	5.89	7.65	10.17	1.84	12.01	0.00	4.20
07/89	10.93		9.80	6.67	8.90	6.72	1.77	10.55	0.02	4.70
08/89	10.67		10.23	6.40	8.67	9.05	1.77	10.37	0.00	5.30
09/89	10.24		9.47	5.67	8.58	5.25	1.82	9.95	0.01	4.33
10/89	10.55		10.17	6.45	8.58	6.59	1.79	10.24	0.02	4.58
MEAN	10.71	9.75	9.78	5.57	7.71	7.96	1.82	9.83	0.00	4.87
SD	0.68	1.31	0.55	0.97	1.05	2.03	0.06	1.31	0.02	1.43
N	7	21	25	29	29	28	29	27	28	28
LN PL	13.21	12.86	11.04	7.72	10.03	12.48	1.95	12.75	0.04	8.05
LIMIT	548130	386510	62062	2256	22763	263335	7.1	344839	1.04	3119
density range									-0.04	
									0.96	

PRESS WATER, SAMOA PACKING

REVISED 12/18/89

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5			
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05	493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05	1613
07/87		308000	160000	2370	10750	147000	6.8	251000	1.05	2300
08/87		280000	213000	1820	21915	117000	6.6	253000	0.94	2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01	362
10/87		441000	188000	11360	10752	250000	6.1	409000	1.04	5800
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00	540
12/87										
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03	759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98	3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03	430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04	1920
05/88		276500	140000	1902	17025	92500	7.5	248000	1.03	306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05	351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00	286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02	1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02	740
10/88		540000	25700	1360	10500	390000	6.5	527000	0.99	530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04	1700
12/88		225000		1532	10880	87300	6.1	197000	0.93	820
01/89		273000		1656	12060	250000	6.2	252000	1.05	1110
02/89		315000	460000	3587	12623	260000	5.9	295000	1.02	821
03/89	306000		140000	1460	48000	25000	5.7	279000	1.01	254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01	390
05/89	459000		161000	1432	14000	150000	6.3	439000	1.00	310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03	4750
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03	280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02	440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03	3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03	610
MAX	459000	540000	460000	11360	48000	390000	7.5	527000	1.05	5800
MIN	208000	190000	25700	60	5850	25000	5.6	156000	0.93	254
MEAN	275250	287222	168954	2108	15721	132090	6.3	259731	1.02	1331
SD	82502	79926	83720	1878	8415	79940	0.4	80626	0.03	1440
N	8	22	28	30	29	30	30	29	29	29
M + 2	440253	447073	336395	5865	32550	291970	7.2	420984	1.08	4211
M - 2	110247	127371	1514	-1648	-1108	-27791	5.5	98478	0.96	-1550

Adjusted Data, Outliers > 2 Standard Deviations

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		220180	63375	60		79580	6.5			
05/87		285000	133000	3810	9000	132000	6.8	256200	1.05	493
06/87		311000	145000	2340	22000	166000	6.8	281000	1.05	1613

07/87		308000	160000	2370	10750	147000	6.8	251000	1.05	2300
08/87		280000	213000	1820	21915	117000	6.6	253000		2620
09/87		247100	197000	2310	12200	81800	5.6	202100	1.01	362
10/87		441000	188000	11360	10752	250000	6.1	409000	1.04	
11/87		190000	116000	1307	11279	66000	6.5	156000	1.00	540
12/87										
01/88		296100	122000	2234	19300	51000	6.1	269900	1.03	759
02/88		386000	130000	1425	22100	210000	6.8	338000	0.98	3070
03/88		254000	166000	1464	11300	110000	6.0	227000	1.03	430
04/88		268000	224900	1842	7500	102000	6.2	242000	1.04	1920
05/88		276500	140000	1902	17025	92500		248000	1.03	306
06/88		207000	165000	1890	13794	110000	6.8	203000	1.05	351
07/88		276000	208000	1605	10175	190000	6.1	275000	1.00	286
08/88		236000	168000	1648	6310	120000	6.2	234000	1.02	1085
09/88		257000	255000	1124	5850	180000	6.2	213000	1.02	740
10/88			25700	1360	10500		6.5		0.99	530
11/88		227000	102000	1672	17800	79000	6.2	206000	1.04	1700
12/88		225000		1532	10880	87300	6.1	197000		820
01/89		273000		1656	12060	250000	6.2	252000	1.05	1110
02/89		315000		3587	12623	260000	5.9	295000	1.02	821
03/89	306000		140000	1460		25000	5.7	279000	1.01	254
04/89	288000		270000	1500	30000	62000	6.2	270000	1.01	390
05/89			161000	1432	14000	150000	6.3		1.00	310
06/89	208000		160000	1040	12500	175000	7.1	185000	1.03	
07/89	230000		150000	2000	14300	58000	5.9	200000	1.03	280
08/89	211000		27750	2100	20000	87516	5.9	184000	1.02	440
09/89	270000		280000	1800	22000	100000	6.9	240000	1.03	3900
10/89	230000		160000	1600	20000	34000	5.9	200000	1.03	610
MAX	306000	441000	280000	11360	30000	260000	7	409000	1	3900
MIN	208000	190000	25700	60	5850	25000	6	156000	1	254
MEAN	249000	275185	158175	2108	14568	123196	6	243193	1	1039
SD	38854	57970	62450	1878	5784	64507	0	52279	0	963
N	7	21	27	30	28	29	29	27	27	27
OUTLI	1	1	1	0	1	1	1	2	2	2

Natural Log of Adjusted Data and Calculation of Permit Limits
gamma = 0.95, P = 0.95

DATE	TS	TSS	BOD5	PHOS	NITRO	O & G	PH	TVS	DENS	NH3
04/87		12.30	11.06	4.09			11.28 1.87			
05/87		12.56	11.80	8.25	9.10		11.79 1.92	12.45	0.05	6.20
06/87		12.65	11.88	7.76	10.00		12.02 1.92	12.55	0.05	7.39
07/87		12.64	11.98	7.77	9.28		11.90 1.92	12.43	0.05	7.74
08/87		12.54	12.27	7.51	9.99		11.67 1.89	12.44		7.87
09/87		12.42	12.19	7.75	9.41		11.31 1.72	12.22	0.01	5.89
10/87		13.00	12.14	9.34	9.28		12.43 1.81	12.92	0.04	
11/87		12.15	11.66	7.18	9.33		11.10 1.87	11.96	0.00	6.29
12/87										
01/88		12.60	11.71	7.71	9.87		10.84 1.81	12.51	0.03	6.63
02/88		12.86	11.78	7.26	10.00		12.25 1.92	12.73	-0.02	8.03
03/88		12.45	12.02	7.29	9.33		11.61 1.79	12.33	0.03	6.06

04/88		12.50	12.32	7.52	8.92	11.53	1.82	12.40	0.04	7.56
05/88		12.53	11.85	7.55	9.74	11.43		12.42	0.03	5.72
06/88		12.24	12.01	7.54	9.53	11.61	1.92	12.22	0.05	5.86
07/88		12.53	12.25	7.38	9.23	12.15	1.81	12.52	0.00	5.66
08/88		12.37	12.03	7.41	8.75	11.70	1.82	12.36	0.02	6.99
09/88		12.46	12.45	7.02	8.67	12.10	1.82	12.27	0.02	6.61
10/88			10.15	7.22	9.26		1.87		-0.01	6.27
11/88		12.33	11.53	7.42	9.79	11.28	1.82	12.24	0.04	7.44
12/88		12.32		7.33	9.29	11.38	1.81	12.19		6.71
01/89		12.52		7.41	9.40	12.43	1.82	12.44	0.05	7.01
02/89		12.66		8.19	9.44	12.47	1.77	12.59	0.02	6.71
03/89	12.63		11.85	7.29		10.13	1.74	12.54	0.01	5.54
04/89	12.57		12.51	7.31	10.31	11.03	1.82	12.51	0.01	5.97
05/89			11.99	7.27	9.55	11.92	1.84		0.00	5.74
06/89	12.25		11.98	6.95	9.43	12.07	1.96	12.13	0.03	
07/89	12.35		11.92	7.60	9.57	10.97	1.77	12.21	0.03	5.63
08/89	12.26		10.23	7.65	9.90	11.38	1.77	12.12	0.02	6.09
			12.54	7.50	10.00	11.51	1.93	12.39	0.03	8.27
09/89	12.35		11.98	7.38	9.90	10.43	1.77	12.21	0.03	6.41
MEAN	12.40	12.51	11.86	7.43	9.51	11.58	1.84	12.38	0.02	6.60
SD	0.16	0.20	0.57	0.77	0.40	0.57	0.06	0.20	0.02	0.81
N	6	21	27	30	28	29	29	27	27	27
LN PL	13.00	12.97	13.12	9.14	10.40	12.85	1.98	12.83	0.07	8.41
LIMIT	443512	430483	500583	9277	32896	381761	7.2	374353	1.07	4486
density range									-0.02	
									0.98	